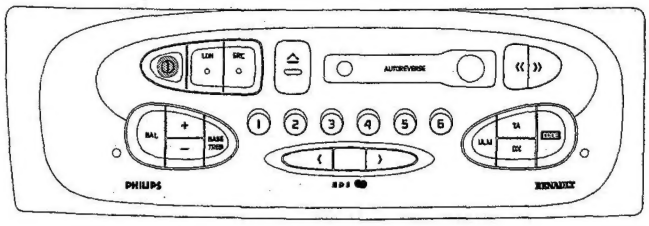
Cassette Car Radio 22DC593/ 62L

22DC594/ 62F/ 62L

Service
Service
Service



For repair information of the Cassette deck see Service Manual No 4822 725 xxxxx of Auto Cassette Deck CDS101Y

Service Manual

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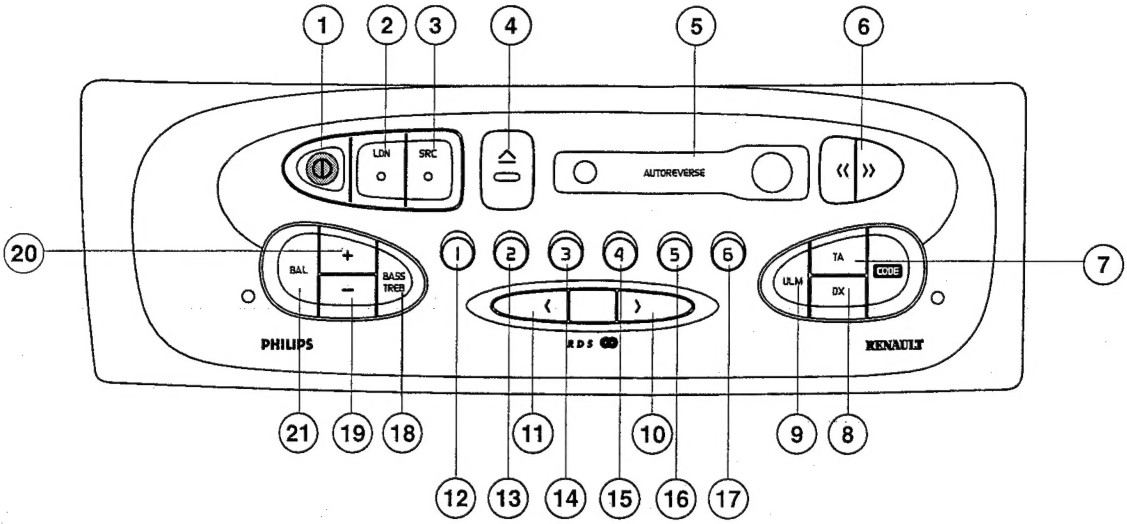
Subject to modification 4822 725 24390

PCS 87 785

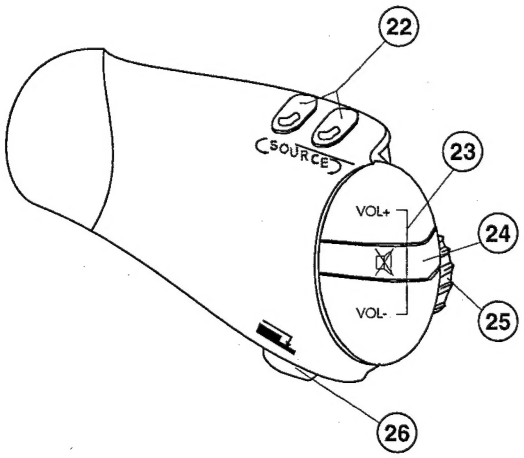
PHILIPS

Front



POS	22DC593/62L	22DC594/62F	22DC594/62L
1	On / Off		
2	Loudness		
3	Source		
4	Eject button		
5	Cassette opening + flap		
6	FRW - FFW Buttons		
7	Info / Traffic announcement		
8	DX Mode		
9	Band Select		
10	Search UP		Search UP / Next track
11	Search DOWN		Search DOWN / Previous track
12	Preset 1		Preset 1 / Scan / Disk 1
13	Preset 2		Preset 2 / Scan / Disk 2
14	Preset 3		Preset 3 / Scan/ Disk 3
15	Preset 4		Preset 4 / Scan / Disk 4
16	Preset 5	Preset 5 / MSS	Preset 5 / MSS / Scan / Disk 5
17	Preset 6	Preset 6 / Dolby	Preset 6 / Dolby / Scan / Disk 6
18	Bass / Treble		
19	Vol , Bass, Treble, Balance -	Vol , Bass, Treble, Balance, Fader -	
20	Vol , Bass, Treble, Balance +	Vol , Bass, Treble, Balance, Fader +	
21	Balance	Balance / Fader	

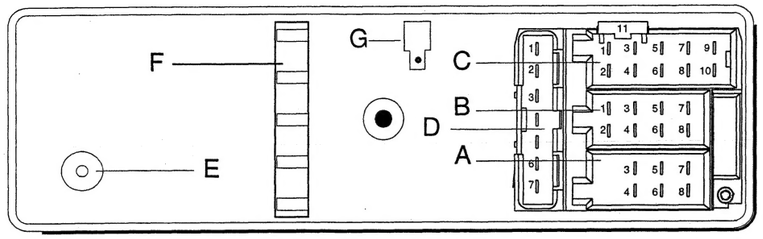
Remote control



22	Change waveband/source	
23	Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated	
24	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	All others modes: Mute / Demute
25	In code entry mode: Selection digits Sec Code	Changing preset / Track selection
26	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	In radio mode: SP : search UP LP : Starts Autostore

SP : Short press LP : Long press (>2s)

CONNECTIONS



POS	FUNCTION	DC593/62L	DC594/62F	DC594/62L
A1				
A2				
A3	Mute radio (0V)	X	X	X
A4	Plus permanent	X	X	X
A5	+ Antenna	X	X	X
A6	Pilot light	X	X	X
A7	Plus accessories	X	X	X
A8	GND	X	X	X
B1	Rear right +		X	X
B2	Rear right -		X	X
B3	Front right +	X	X	X
B4	Front right -	X	X	X
B5	Front left +	X	X	X
B6	Front left -	X	X	X
B7	Rear left +		X	X
B8	Rear left -		X	X
C1	Screening D2B			X
C2	Bus D2B +			X
C3	Bus D2B -			X
C4	GND supply			X
C5	CD supply (A4)			X
C6				
C7	Info on / off (A5)			X
C8	input right			X
C9	Input left			X
C10	Input ref			X
C11	Screening CD			X
D1	Data I2C	X	X	X
D2	Clock I2C	X	X	X
D3	Mrq I2C	X	X	X
D4				
D5				
D6	+ antenna	X	X	X
D7	GND	X	X	X
E	AERIAL PLUG	X	X	X
F	Fastening cable	X	X	X

TECHNICAL DATA

GENERAL

Power supply	:14.4V DC
Dimensions	:180x150x51 mm
Security code	: Yes
Remote control	: Yes
Remote display	: Yes

RADIO

LW	: 153-279 KHz
MW	: 531-1602 KHz
FM	: 87.5-108 MHz
IF-AM (1/2)	: 10.7 MHz/450 KHz
IF-FM (1/2)	: 72.2 MHz/10.7 MHz
Sensivity 26dB S/N	: <40 µV (LW) : <40 µV (MW) : 3.5 µV (FM)
Limitation α-3dB	: 3µV<L<14µV

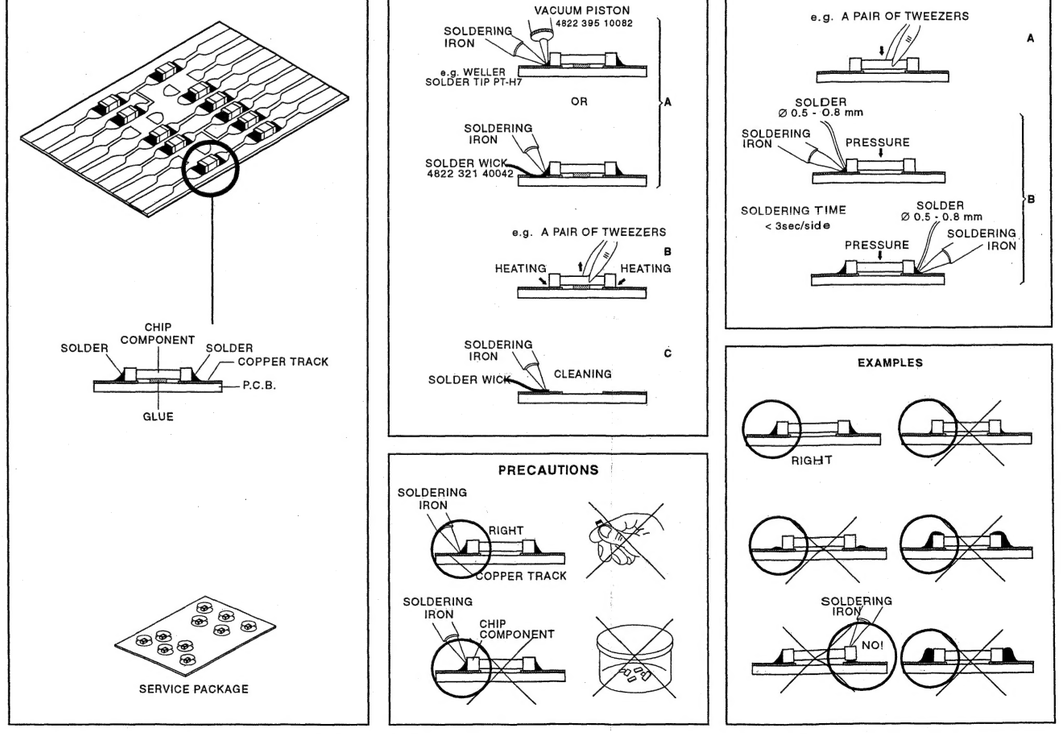
CASSETTE

Cassette mechanism	: CDS101-Y
Number of tracks	: 2x2
Tape speed	: 4.76 cm/sec
Wow and flutter	: ≤ 0.35%
Crosstalk	: ≥ 30 dB

AMPLIFIER

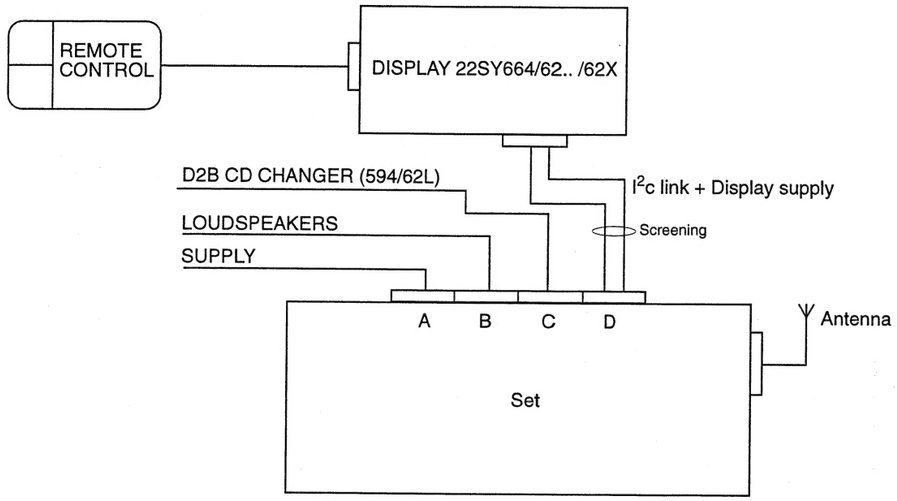
Output power	: 4x15 W / 4 Ω (THD = 10%) DC594 : 2x6W / 4 Ω (THD = 10%) DC593
Fader control	: >12 dB (DC594 only)
Balance control	: >15 dB
Source separation	: >60 dB
Input sensivity (CD in)	: 150 mV ± 2 dB

HANDLING CHIP COMPONENTS



These sets are parts of a system, composed of the following parts:
1)- The set 22DC593/62L, 594/62L or 594/62F.
2)- A remote control + cable.
3)- A remote display 22SY664/62 or 62X.
4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



This set is protected by a security code. **THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.**

Entering the code:
-) Press the On/Off key to switch on the set. COD and then 0000 will appear on the display.
-) To select the four digits of the code:
- Adjust the flashing digit with the thumbwheel on the remote control.
- Press the [24] key or 26] key on the remote control to change the digit.
-) Press the [24] key or [26] key for at leasr 2 seconds to validate the code.
When the code is activated a bleep will be heard.

Example : you want to enter the code 7637

	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Press [24] or [26] for at least 2 seconds
0000	7000	7600	7630	7637	Last heard frequency

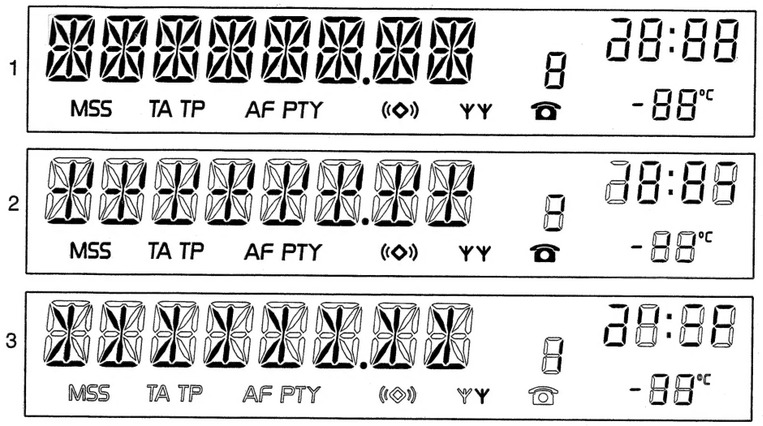
SYSTEM TESTS

WARNING: this test needs a display 22SY656/62B to be completed

1 - Display connection check

Starting the test: supply the display with the 12V acc without radio connected or radio switched off while <Vol+>sat, <Vol->sat and <SOURCE>sat are pressed together.

If there is no problem, the following test will start.
The display shows 3 different screens:



These screens are displayed in sequence each time you press the <26>sat button. It can be aborted by Switching On the set.

2 - Keyboard test

Starting the test: press P3 and ON.

"T" is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 17 keys have been pressed, "TEST OK" message is displayed.
This test can be aborted at any time by switching the set OFF.

number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
key	LDN	BAL FAD	+	-	BAS TRE	Pr 1	Pr 2	Pr 3	Pr 4	Pr 5	Pr 6	ULM	TA	DX	SRC	<	>

If all is right, thr display shows "KEYS OK"

3 - Check sum and Running times (Multiples of ten minutes)

At the end of the keyboard test, press P3 to start this test.
The display will show in order, during 5s each :

1) the checksum of the front microprocessor : CSF 027B
2) the checksum of the main microprocessor : CSM C0BC
3) the running time in tuner mode : TU ....
4) the running time in cassette mode : TA ....
5) the running time in Cd changer mode CDC ....
6) the running time in Traffic Announcement TR ....
7) the running time in Telephone Call SP ....
8) the total running time TOT ....
9) the running time in nominal mode I²C NOM ....

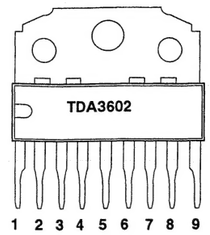
These indications are displayed in a loop. To end the test, switch Off the set.

SAA6579T Radio Data System demodulator

SYMBOL	PIN	DESCRIPTION
QUAL	1	quality indication output
RDDA	2	RDS data output
V_{ref}	3	reference voltage output (0.5 V_{DDA})
MPX	4	multiplex input signal
V_{DDA}	5	+5V supply voltage for analog part
V_{SSA}	6	ground for analog part (0V)
CIN	7	subcarrier input to comparator
SCOUT	8	subcarrier output for reconstruction filter
TCTR	9	test control
TEN	10	test enable
V_{SSD}	11	ground for digital part (0V)
V_{DDD}	12	+5V supply voltage for digital part
OSCI	13	oscillator input
OSCO	14	oscillator output
T57	15	57kHz clock signal output
RDCL	16	RDS clock output

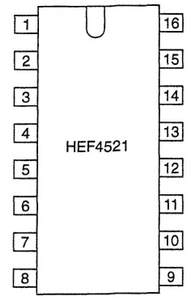
TDA3602 Multiple output voltage regulator

SYMBOL	PIN	DESCRIPTION
V_P	1	positive supply voltage
REG1	2	regulator 1 output
RESET	3	reset output
SCI	4	state control input
HOLD	5	hold output
GND	6	ground
REG3	7	regulator 3 output
V_{bu}	8	back-up
REG2	9	regulator 2 output



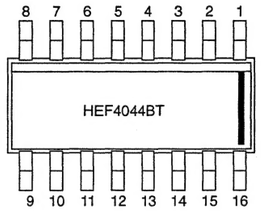
HEF4521BP 24-stage frequency divider

SYMBOL	PIN	DESCRIPTION
O_{24}	1	output 2^{24}
MR	2	asynchronous master reset
$V_{SS'}$	3	
O_2	4	
$V_{DD'}$	5	
I_2	6	
O_1	7	
V_{SS}	8	ground
I_1	9	
O_{18}	10	output 2^{18}
O_{19}	11	output 2^{19}
O_{20}	12	output 2^{20}
O_{21}	13	output 2^{21}
O_{22}	14	output 2^{22}
O_{23}	15	set input 3 (active LOW)
V_{DD}	16	power supply



HEF4044BT Quad R/S latch with 3-state outputs

SYMBOL	PIN	DESCRIPTION
O_3	1	3-state buffered latch output 3
n.c	2	
$\overline{S}_0$	3	set input 0 (active LOW)
$\overline{R}_0$	4	reset input 0 (active LOW)
E0	5	common output enable input
$\overline{R}_1$	6	reset input 1 (active LOW)
$\overline{S}_1$	7	set input 1 (active LOW)
V_{SS}	8	ground
O_1	9	3-state buffered latch output 1
O_2	10	3-state buffered latch output 2
$\overline{S}_2$	11	set input 2 (active LOW)
$\overline{R}_2$	12	reset input 2 (active LOW)
O_0	13	3-state buffered latch output 0
$\overline{R}_3$	14	reset input 3 (active LOW)
$\overline{S}_3$	15	set input 3 (active LOW)
V_{DD}	16	supply



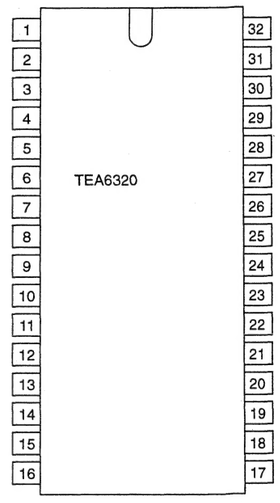
FUNCTION TABLE

inputs			output
E0	$\overline{S}_n$	$\overline{R}_n$	O_n
L	X	X	Z
H	L	H	H
H	X	L	L
H	H	H	latched

Z = high impedance OFF-state

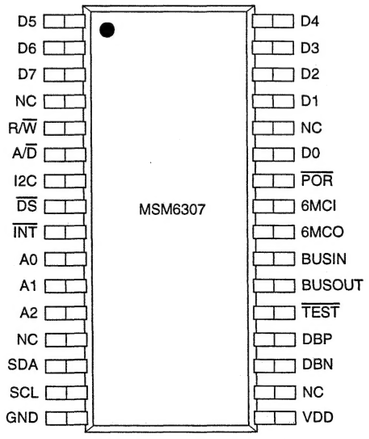
TEA6320 SOFAC (SOund FAder Control circuit)

SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
SDA	1	serial data input/output	IAR	17	input A right source
GND	2	ground	IBR	18	input B right source
OUTLR	3	output left rear	CAP	19	electronic filtering for supply
OUTLF	4	output left front	ICR	20	input C right source
TL	5	treble control capacitor left channel or input from an external equalizer	V_{ref}	21	reference voltage (0.5Vcc)
B2L	6	bass control capacitor left channel or output to an external equalizer	IDR	22	input D right source
B1L	7	bass control capacitor, left channel	QSR	23	output source selector right channel
IVL	8	input volume I, left control part	ILR	24	input loudness right channel
ILL	9	input loudness, left control part	IVR	25	input volume I, right control part
QSL	10	output source selector, left channel	B1R	26	bass control capacitor, right channel
IDL	11	input D left source	B2R		bass control capacitor right channel or output to an external equalizer
MUTE	12	mute control	TR	28	treble control capacitor right channel or input from an extenal equalizer
ICL	13	input C left source	OUTRF	29	output right front
IMO	14	input mono source	OUTRR	30	output right rear
IBL	15	input B left source	Vcc	31	supply voltage
IAL	16	input A left source	SCL	32	serial clock input



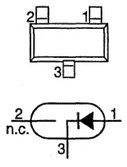
MSM6307GS D^2B IC

SYMBOL	I/O	DESCRIPTION
$\overline{POR}$	I	Power on - reset
R / $\overline{W}$	I	Read / Write selector
$\overline{DS}$	I	Data strobe to access data bus
A / $\overline{D}$	I	Selects address or data on D0 ~ d7
SDA	I/O	I^2C data signal input / output
SCL	I/O	I^2C clock signal input / output
I2C	I	Selects I^2C or parallel interface
$\overline{INT}$	O	Interrupt output
BUSIN	I	D2B input (TTL level)
BUSOUT	O	D2B output (TTL level)
DBN & DBP	I/Os	Differential D2B lines of the internal driver/ receiver, to be terminated with 60Ω
$\overline{TEST}$	I	Selects the test mode for factory purposes
6MCI	I	Clock input 6MHz resonator or X-TAL
6MCO	O	Clock output 6MHz resonator or X-TAL
D0 ~ D7	I/Os	8-bit bi-directional address or data bus
A0 ~ A2	I	Programmables I^2C slave addresses

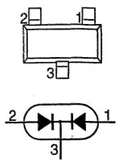


DIODES

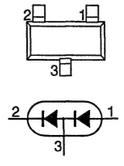
BAS 16



BAV 70

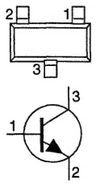


BAV 99

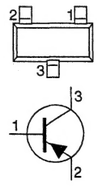


TRANSISTORS

BC847B / BFS19



BC857B



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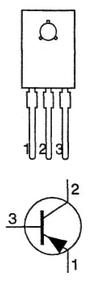
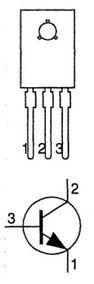
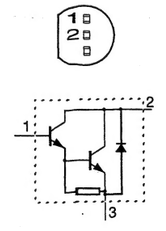


BD677



BC875



DC VOLTAGES

All measurements in FM, set tuned, 0dB at output.
All settings in mid position. Values are given for indication only.

IC91 TUNER MODULE

1 = 0.5 V
2 = GND
3 = N.C.
4 = N.C.
5 = N.C.
6 = 4.9 V
7 = 8.3 V
8 = GND
9 = 4.9 V
10 = 4.6 V
11 = 2.9 V
12 = 4.7 V
13 = 4.9 V
14 = 4.8 V
15 = N.C.
16 = 3.6 V
17 = 3.6 V
18 = 0.0 V
19 = N.C.
20 = N.C.

7257 LA2000

1 = 1.8 V
2 = 7.3 V
3 = 2.1 V
4 = N.C.
5 = GND
6 = 5.0 V
7 = N.C.
8 = N.C.
9 = 8.5 V

7350 TDA8579T

1 = 4.8 V
2 = 5.0 V
3 = 4.8 V
4 = 5.2 V
5 = GND
6 = 4.4 V
7 = 4.4 V
8 = 8.5 V

7354 TEA6320

1 = 5.0 V
2 = GND
3 = 3.6 V
4 = 3.9 V
5 = 3.9 V
6 = 3.9 V
7 = 3.9 V
8 = 3.5 V
9 = 3.8 V
10 = 3.7 V
11 = N.C.
12 = 7.6 V
13 = 4.4 V
14 = 3.8 V
15 = 3.9 V
16 = 3.6 V
17 = 3.7 V
18 = 3.9 V
19 = 7.6 V
20 = 4.4 V
21 = 3.9 V
22 = N.C.
23 = 3.7 V
24 = 3.8 V
25 = 3.5 V
26 = 3.9 V
27 = 3.9 V
28 = 3.9 V
29 = 3.9 V
30 = 3.9 V
31 = 7.6 V
32 = 5.0 V

7355 SAA6579T

1 = N.C.
2 = 3.1 V
3 = 2.5 V
4 = 2.5 V
5 = 4.9 V
6 = GND
7 = 2.3 V
8 = 2.5 V
9 = GND
10 = GND
11 = GND
12 = 4.9 V
13 = 4.332 MHz
14 = 4.332 MHz
15 = N.C.
16 = 3.5 V

7356 TL074

1 = 4.2 V
2 = 4.2 V
3 = 4.1 V
4 = 8.2 V
5 = 4.1 V
6 = 4.3 V
7 = 4.2 V
8 = 4.2 V
9 = 4.3 V
10 = 4.1 V
11 = GND
12 = 4.2 V
13 = 4.2 V
14 = 4.2 V

7551 TDA7374

1 = 7.0 V
2 = 7.0 V
3 = 14.4 V
4 = 0.7 V
5 = 0.7 V
6 = 0.7 V
7 = 3.3 V
8 = Earth
9 = GND
10 = 0.0 V
11 =0.7 V
12 =0.7 V
13 = 14.4 V
14 = 7.0 V
15 = 7.0 V

7251 TEA0675T

1 = 4.0 V
2 = 3.4 V
3 = 3.9 V
4 = 3.9 V
5 = 3.9 V
6 = 5.6 V
7 = 4.0 V
8 = 4.0 V
9 = 8.2 V
10 = 3.6 V
11 = 4.0 V
12 = 4.0 V
13 = 4.0 V
14 = GND
15 = N.C.
16 = GND
17 = 4.0 V
18 = 4.0 V
19 = 4.5 V
20 = 3.9 V
21 = 0.6 V
22 = 3.4 V
23 = 3.0 V
24 = 4.0 V

7601 ST24C16

1 = 5.0 V
2 = 5.0 V
3 = 5.0 V
4 = GND
5 = 5.0 V SDA
6 = 5.0 V SCL
7 = GND
8 = 5.0 V

7602 HEF4521

1 = N.C.
2 = GND
3 = GND
4 = 3.5 V
5 = 5.0 V
6 = 3.5 V
7 = 3.5 V.
8 = GND
9 = 2.5 V
10 = 1 Hz ⎍⎍
11 = N.C.
12 = N.C.
13 = N.C.
14 = N.C.
15 = N.C.
16 = 5.0 V

7603 MSM6307GS

1 = 5.0 V
2 = 5.0 V
3 = 5.0 V
4 = N.C.
5 = 5.0 V
6 = 5.0 V
7 = 5.0 V
8 = 5.0 V
9 = 5.0 V
10 = 5.0 V
11 = 5.0 V
12 = 5.0 V
13 = N.C.
14 = 4.9 V SDA
15 = 4.9 V SCL
16 = GND
17 = 5.0 V
18 = N.C.
19 = 2.3 V
20 = 2.3 V
21 = 5.0 V
22 = N.C.
23 = 5.0 V
24 = 5.75 MHz
25 = 5.75 MHz
26 = 4.8 V
27 = 5.0 V
28 = N.C.
29 = 5.0 V
30 = 5.0 V
31 = 5.0 V
32 = 5.0 V

7800 TDA3602

1 = 13.4 V
2 = 8.5 V
3 = N.C.
4 = 0.6 V
5 = 5.0 V
6 = GND
7 = 5.0 V
8 = 13.2 V
9 = 5.0 V

7826 HEF 4044BT

1 = 0.0 V
2 = N.C.
3 = 3.5 V
4 = 4.6 V
5 = 5.0 V
6 = 4.0 V
7 = 5.0 V
8 =GND
9 = 5.0 V
10 = 0.0 V
11 = 4.8 V
12 = 5.0 V
13 = 5.0 V
14 = 5.0 V
15 = 5.0 V
16 = 5.0 V

Check and Alignment

No alignment is needed for radio part. IC91 tuner is pre-aligned.

For all measurement, please refer to "General Check & Alignment procedures for Car Systems' 4822 725 25456

Dolby alignment:

cassette	adjust	
MTT 150 F = 400 Hz/ 200 nWb	3260 and 3261	AC voltage at pin 1 & 24 of 7251 = 387.5 mV +/- 50mV

Checks:

Supply voltages (set Off)

SET OFF	Voltage	Current + Acc ON	Current + Acc OFF	Pin 14 µP	Pin 69 µP
Acc supply	+14.4V	< 20mA		min 4.8V max 5.2V	max 0.8V
Perm supply	+14.4V	< 3mA	< 3mA		

Supply voltages (set On)

device	µP	µP	µP	TDA3602	TDA3602	EEprom
pin	30 (reset)	14 (supply)	69 (hold)	9 (5V)	2 (8.5V)	8
Voltage	max 0.8V	min 4.8V max 5.2V	min 2.0V max 5.7V	min 4.8V max 5.2V	min 8.2V max 8.8V	min 4.8V max 5.2V

Reference oscillator frequencies

device	MSM 6307	µP	SAA6579T
pin	24 & 25	51 & 52	13 & 14
frequency	6 MHz 0.5%	11.5 MHz 0.5%	4.332 MHz 60 ppm

FM mute:

98 MHz 1mV	output at load resistor R & L = 775 mV = REF
no signal	output should be < -20 dB (REF - 20 dB)

Demodulated FM levels

Input	Output of IC91 (pin 16 & 17)
98 MHz	300 mV ± 50 mV

Limiting point α-3dB

Range	Input	min	nominal	max
87.5 to 108 MHz	1mV 400Hz	3µV	5.5µV	14µV

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BLOCK DIAGRAM
22DC593/62L
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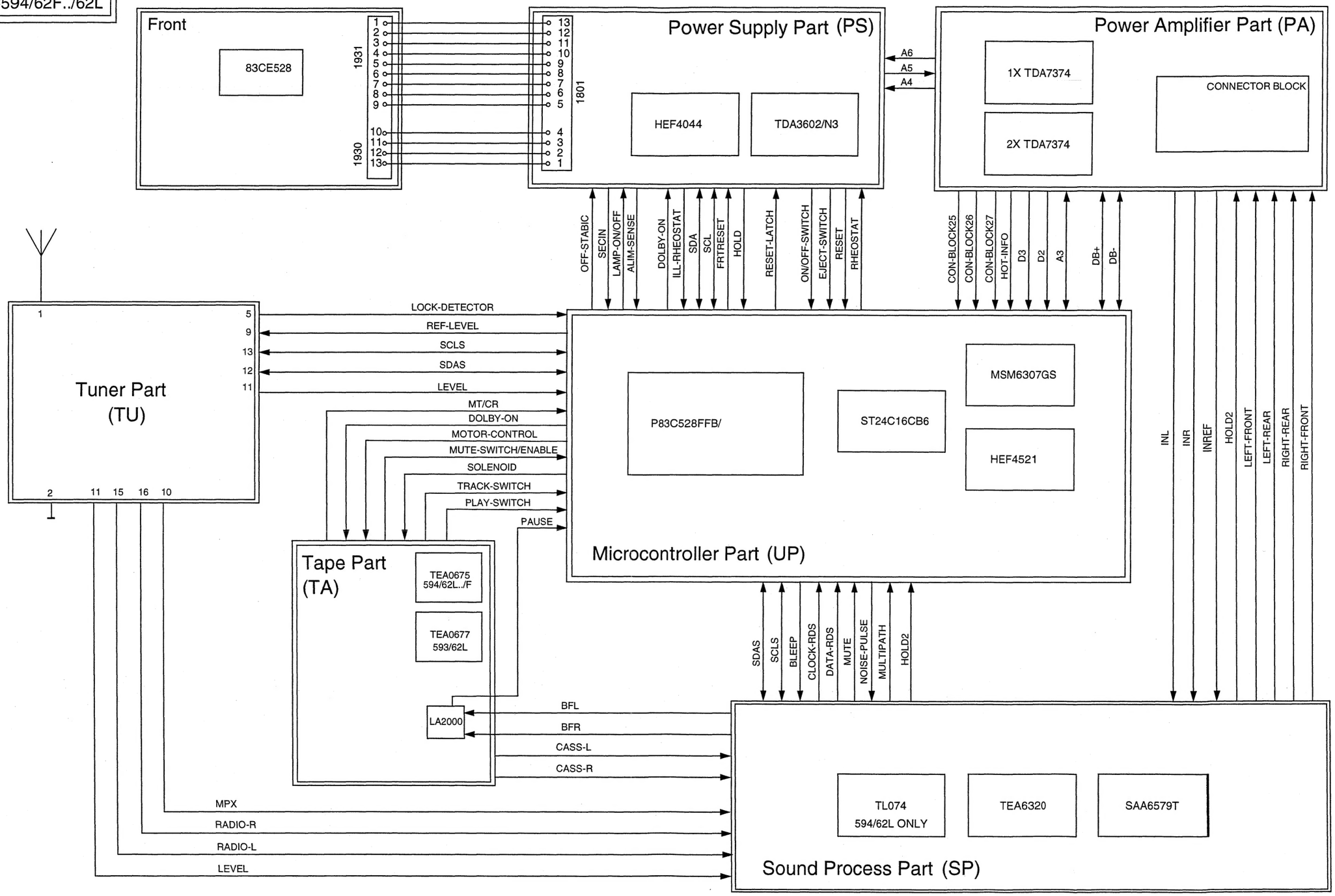
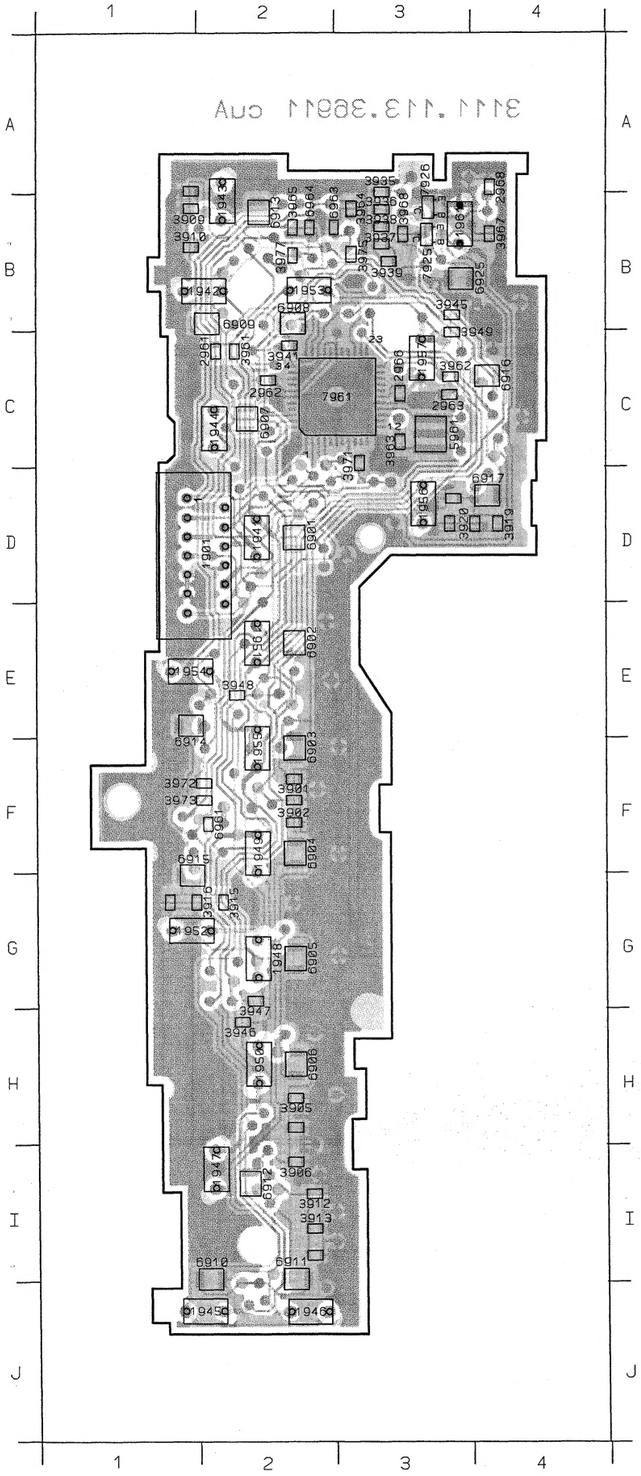


FRONT PWB



1901	D 2	3972	F 2		
1941	D 2	3973	F 2		
1942	B 1	3975	B 3		
1943	B 2	3977	B 2		
1944	C 2	5961	C 3		
1945	J 1	6901	D 2		
1946	J 2	6902	E 2		
1947	I 2	6903	F 2		
1948	G 2	6904	F 2		
1949	F 2	6905	G 2		
1950	H 2	6906	H 2		
1951	E 2	6907	C 2		
1952	G 1	6908	B 2		
1953	B 2	6909	B 2		
1954	E 1	6910	I 2		
1955	F 2	6911	I 2		
1956	D 3	6912	I 2		
1957	C 3	6913	B 2		
1961	B 3	6914	E 1		
2961	C 2	6915	G 1		
2962	C 2	6916	C 4		
2963	C 3	6917	D 4		
2966	C 3	6925	B 3		
2968	A 4	6961	F 2		
3901	F 2	6963	B 3		
3902	F 2	6964	B 2		
3905	H 2	7925	B 3		
3906	I 2	7926	B 3		
3909	B 1	7961	C 2		
3910	B 1				
3912	I 2				
3913	I 2				
3915	G 2				
3916	G 2				
3919	D 4				
3920	D 3				
3935	A 3				
3936	B 3				
3937	B 3				
3938	B 3				
3939	B 3				
3941	C 2				
3945	B 3				
3946	H 2				
3947	G 2				
3948	E 2				
3949	C 3				
3961	C 2				
3962	C 3				
3963	C 3				
3964	B 3				
3965	B 2				
3967	B 4				
3968	B 3				
3971	C 3				

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Miscellaneous

1941	4822 276 13103	SWITCH
1942	4822 276 13103	SWITCH
1943	4822 276 13103	SWITCH
1944	4822 276 13103	SWITCH
1945	4822 276 13103	SWITCH
1946	4822 276 13103	SWITCH
1947	4822 276 13103	SWITCH
1948	4822 276 13103	SWITCH
1949	4822 276 13103	SWITCH
1950	4822 276 13103	SWITCH
1951	4822 276 13103	SWITCH
1952	4822 276 13103	SWITCH
1953	4822 276 13103	SWITCH
1954	4822 276 13103	SWITCH
1955	4822 276 13103	SWITCH
1956	4822 276 13103	SWITCH
1957	4822 276 13103	SWITCH
1961	4822 276 13103	SWITCH

2961	4822 126 13196	100nF 10% 25V X7R 0805
2962	4822 126 13196	100nF 10% 25V X7R 0805
2963	4822 126 13196	100nF 10% 25V X7R 0805
2966	4822 126 13196	100nF 10% 25V X7R 0805
2968	4822 126 13196	100nF 10% 25V X7R 0805

3901	4822 051 20102	1KΩ 5% RC11 0805
3902	4822 051 20122	1KΩ 5% RC11 0805
3905	4822 051 20102	1KΩ 5% RC11 0805
3906	4822 051 20122	1K2 5% RC11 0805
3909	4822 051 20821	820Ω 5% RC11 0805
3910	4822 051 20821	820Ω 5% RC11 0805
3912	4822 051 20821	820Ω 5% RC11 0805
3913	4822 051 20821	820Ω 5% RC11 0805
3915	4822 051 20821	820Ω 5% RC11 0805
3916	4822 051 20821	820Ω 5% RC11 0805
3919	4822 051 20122	1K2 5% RC11 0805
3920	4822 051 20122	1K2 5% RC11 0805
3935	4822 051 20272	2K7 5% RC11 0805
3936	4822 051 20272	2K7 5% RC11 0805
3937	4822 051 20272	2K70 5% RC11 0805
3938	4822 051 20272	2K7 5% RC11 0805
3939	4822 051 20272	2K7 5% RC11 0805
3941	4822 051 20223	22KΩ 5% RC11 0805
3945	4822 051 20223	22KΩ 5% RC11 0805
3946	4822 051 20223	22KΩ 5% RC11 0805
3947	4822 051 20223	22KΩ 5% RC11 0805
3948	4822 051 20223	22KΩ 5% RC11 0805
3949	4822 051 20223	22KΩ 5% RC11 0805
3961	4822 051 20109	10Ω 5% RC11 0805
3962	4822 051 20109	10Ω 5% RC11 0805
3963	4822 051 20471	470Ω 5% RC11 0805
3964	4822 051 20331	330Ω 5% RC11 0805
3965	4822 051 20331	330Ω 5% RC11 0805
3967	4822 051 20473	47KΩ 5% RC11 0805
3968	4822 051 20473	47KΩ 5% RC11 0805
3971	4822 051 20221	220Ω 5% RC11 0805
3972	4822 051 20153	15KΩ 5% RC11 0805
3973	4822 051 20153	15KΩ 5% RC11 0805
3975	4822 051 20221	220Ω 5% RC11 0805
3977	4822 051 20221	220Ω 5% RC11 0805

5961	4822 242 10435	CER RES 12MHZ
6901	4822 130 10417	LED SM LOT670-JK-E9139
6902	4822 130 10417	LED SM LOT670-JK-E9139
6903	4822 130 10417	LED SM LOT670-JK-E9139
6904	4822 130 10417	LED SM LOT670-JK-E9139
6905	4822 130 10417	LED SM LOT670-JK-E9139
6906	4822 130 10417	LED SM LOT670-JK-E9139
6907	4822 130 10417	LED SM LOT670-JK-E9139
6908	4822 130 10417	LED SM LOT670-JK-E9139
6909	4822 130 10417	LED SM LOT670-JK-E9139
6910	4822 130 10417	LED SM LOT670-JK-E9139
6911	4822 130 10417	LED SM LOT670-JK-E9139
6912	4822 130 10417	LED SM LOT670-JK-E9139
6913	4822 130 10417	LED SM LOT670-JK-E9139
6914	4822 130 10417	LED SM LOT670-JK-E9139
6915	4822 130 10417	LED SM LOT670-JK-E9139
6916	4822 130 10417	LED SM LOT670-JK-E9139
6917	4822 130 10417	LED SM LOT670-JK-E9139
6925	4822 130 10417	LED SM LOT670-JK-E9139
6961	4822 130 83757	DIODE BAS216
6963	4822 130 10185	DIODE REG SM UDZ5.6B
6964	4822 130 10185	DIODE REG SM UDZ5.6B

7925	4822 130 60511	BC847B
7926	4822 130 60511	BC847B
7961	4822 209 13611	P83CE528EFB/017

FRONT PART
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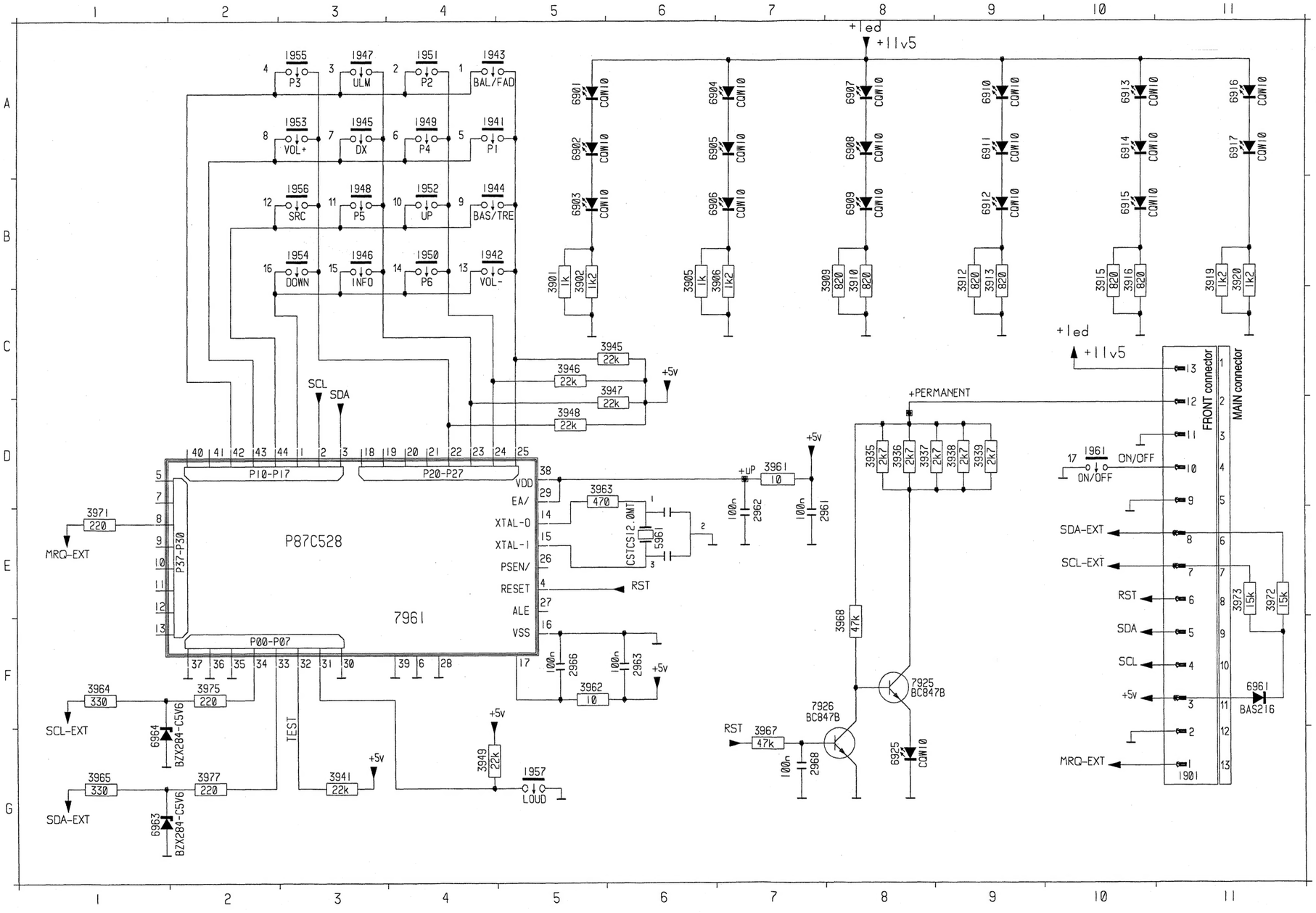
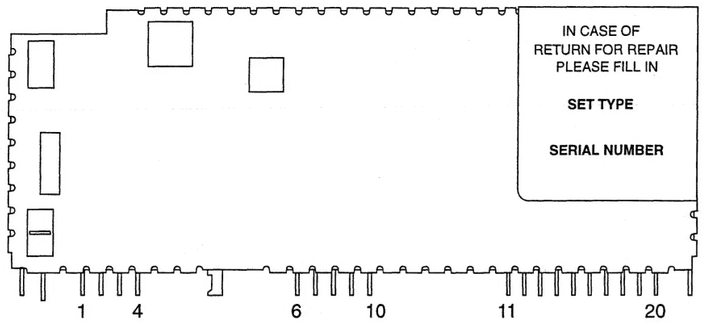


	1901	C 11	3964	F 1
	1941	A 4	3965	G 1
	1942	B 4	3967	G 7
	1943	A 4	3968	F 7
	1944	B 4	3971	E 1
A	1945	A 3	3972	E 11
	1946	B 3	3973	E 11
	1947	A 3	3975	F 2
	1948	B 3	3977	G 2
	1949	A 4	5961	E 6
	1950	B 4	6901	A 5
	1951	A 4	6902	A 5
B	1952	B 4	6903	B 5
	1953	A 3	6904	A 6
	1954	B 3	6905	A 6
	1955	A 3	6906	B 6
	1956	B 3	6907	A 8
	1957	G 5	6908	A 8
	1961	D 10	6909	B 8
C	2961	E 7	6910	A 9
	2962	E 7	6911	A 9
	2963	F 6	6912	B 9
	2966	F 5	6913	A 10
	2968	G 7	6914	A 10
	3901	B 5	6915	B 10
D	3902	B 5	6916	A 11
	3905	B 6	6917	A 11
	3906	B 6	6925	G 8
	3909	B 7	6961	F 11
	3910	B 8	6963	G 1
	3912	B 9	6964	G 1
	3913	B 9	7925	F 8
E	3915	B 10	7926	F 7
	3916	B 10	7961	F 3
	3919	B 11		
	3920	B 11		
	3935	D 8		
	3936	D 8		
F	3937	D 8		
	3938	D 9		
	3939	D 9		
	3941	G 3		
	3945	C 5		
	3946	C 5		
	3947	D 5		
G	3948	D 5		
	3949	G 4		
	3961	D 7		
	3962	F 5		
	3963	D 5		

IC91 MODULE

Do not open nor try to repair yourself!

This module is a Service Part as a complete sub-assembly and must be ordered with the normal procedure.



Connections

1	AM/FM Aerial input	11	Multiplex / RDS output signal
2	Ground	12	Unweighted level output
3	Not used	13	I^2C SDA
4	Not used	14	I^2C SCL
		15	Not used
6	Output lock detector	16	Output Left
7	Vcc 8.5V	17	Output Right
8	Ground	18	Ground
9	Vcc 5.0V	19	Not used
10	V reference	20	Not used

Quick reference data:

) AM part
- -Longwave/Mediumwave 144-1710 KHz
- -Shortwave 5900-6250 KHz
- -AM double super concept
- -AM IF1 10.7MHz
- -AM IF2 450KHz
- -First VCO frequency above input signal frequency
- -Second X-tal oscillator frenquency below IF1
- -Usable sensivity α26dB MW = 14µV typ.

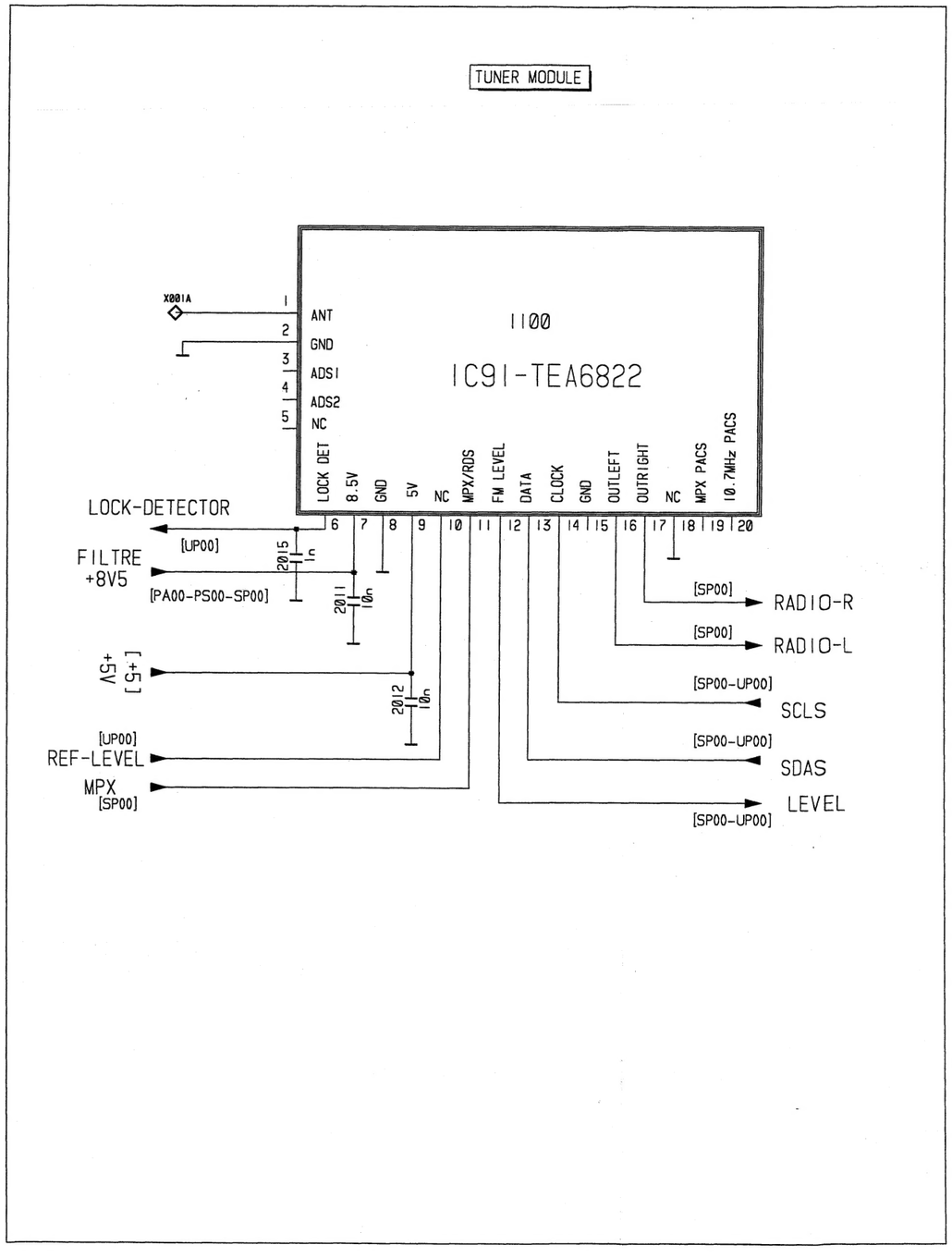
1) FM part
- -FM 87.5 - 108MHz
- -FM double super concept
- -FM IF1 72.2MHz
- -FM IF2 10.7MHz
- -First VCO frequency above input signal frequency
- -Second X-tal oscillator frenquency below IF1
- -Usable sensivity α26dB =2.5µV typ.
- -THD 1mV δf=75KHz = 0.4% typ
- -Signal to noise ratio = 65dB typ
- -Locktime synthetizer <2mSec

WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD equipment available:

Anti-static table mat large 100X650X1.25mm	4822 466 10953
small 600X650X1.25mm	4822 466 10958
Connection box (1Mohm)	4822 395 10223
Extendible cable (to connect wrist band to connection box)	4822 320 11307
Connecting cable (to connect table mat to connection box)	4822 320 11305
Earth cable (to connect any product to mat or box)	4822 320 11308
Complete kit ESD3 (combining all above products)	4822 310 10671
wristband tester	4822 344 13999



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MICROPROCESSOR PART

A3	H1	CLOCK-RDS	H9	FRTRESET	H8	INT_D2B	J11	MT/CR	H9	ON/OFF-SWITCH	H8	SCL	C5	SECIN	D11
ALIM-SENSE	D11	DATA-RDS	H10	HOLD	B8/D9	LAMPE-ON/OFF	D10	MULTIPATH	D12	PAUSE	D7	SCL-EXT	L6	SOLENOID	D10
BLEEP	H9	DB+	J17	HOLD2	B8	LEVEL	B12	MUTE	H11	PLAY-SWITCH	D9	SCLS	H10/K11	TELEPHONE-MUTE	H11
CONN-BLOCK-25	L3	DB-	K17	HOT-INFO	I12	LOCK-DETECTOR	H16	MUTE-SWITCH/ENABLE	D10	REF-LEVEL	A11	SDA	B5	TELEPHONE-MUTE	H3
CONN-BLOCK-26	K3/I17	DOLBY-B/C	H10	ILL-RHEOSTAT	D12	MOTOR-CONTROL	D10	NOISE-PULSE	D10	RESET	F16	SDA-EXT	L6	TRACK-SWITCH	D9
CONN-BLOCK-27	L3	DOLBY-ON	H10	INT_D2B	D9	MRQ-EXT	I15	OFF-STABIC	H9	RESET-LATCH	H8	SDAS	H7/K11		

IN BLUE: ALTERNATIVE COMPONENTS FOR DC594/62L

	2013	C13	6614	B10		3013	B11		3609	L5		3719	G1		5605	E6
	2014	C11	6615	K6		3014	B11		3610	J17		3620	K17		5606	L16
	2600	F2	6819	H1	D	3600	L6		3613	H2		3621	K15		6600	I16
A	2601	F1	7600	F10		3601	L5	E	3614	H2		3627	J13		6610	K16
	2602	G15	7601	B1		3607	L6		3619	G1	F	3628	H9		6611	L16
	2603	H15	7602	C16								3700	G2			
	2605	G5	7603	L13												
	2606	B1	7609	H2								3701	G16			
	2615	F2	9600	D6								3702	I17			
B	2617	F3	9610	J16								3703	A5			
	2618	B14	9620	K16								3704	A5			
	2619	L15										3706	B15			
	2622	H1									G	3707	D15			
	2623	J11										3709	C17			
	2630	I13										3710	G6			
	2632	E6										3711	B15			
C	2634	D17										3712	D16			
	2635	C15									H	3713	B17			
	3004	C12										3714	F15			
	3012	H13										3717	A3			
												3718	B9			
												3720	C8			
												3721	B10			
											I	3725	C12			
												3726	A4			
												3727	A4			
												3728	C3			
												3729	A4			
												3730	F6			
											J	3731	F6			
												3732	J11			
												3734	K5			
												3824	H7			
												3825	I11			
												3828	J9			
												3842	F15			
											K	3846	H8			
												3860	C11			
												5600	E1			
												5601	G5			
												5603	J13			
												5604	D6			

1000	A 8	2021	I 2	2386	G 6	2406	G 7	2801	A 2	3260	J 4	3617	C 7	5100	G 3	6252	C 4	6804	C 1	7602	G 2	9508	C 6	9520	B 8
1100	G 8	2259	I 3	2387	H 5	2418	E 7	2803	B 3	3261	J 4	3618	C 6	5350	H 7	6352	H 2	6815	D 7	7800	A 3	9510	B 5	9597	C 3
1250	J 3	2265	H 3	2388	H 6	2555	D 6	2804	A 2	3269	C 4	3620	D 7	5500	D 7	6571	C 5	7256	C 5	7803	B 3	9511	B 5	9600	E 2
1251	C 4	2268	I 4	2389	G 5	2564	B 4	2805	B 2	3303	C 3	3716	B 4	5570	B 7	6584	B 6	7257	I 4	7809	C 2	9512	B 5	9610	E 7
1252	J 3	2269	I 4	2390	G 6	2570	B 4	2806	B 3	3509	H 3	3809	B 2	5600	D 3	6600	E 6	7260	C 3	9252	C 4	9513	B 6	9620	E 7
1600	F 5	2291	I 4	2391	G 5	2580	D 5	2812	B 2	3585	A 4	3820	B 3	5601	F 3	6610	E 6	7354	I 6	9253	C 4	9514	D 6	9801	B 3
1800	D 1	2382	I 2	2392	H 6	2583	D 6	2823	F 2	3597	C 3	3821	B 3	5602	G 1	6611	E 7	7356	F 7	9262	C 3	9515	G 7	9802	G 3
1801	B 1	2383	I 4	2394	I 1	2589	B 5	2830	B 2	3610	D 7	3838	B 3	5603	E 6	6612	C 2	7550	A 5	9380	I 6	9516	B 5	9813	B 1
1802	H 1	2384	I 5	2396	H 3	2601	D 3	2831	G 2	3615	C 7	3840	C 2	5604	F 2	6613	C 2	7551	A 7	9400	H 7	9517	A 4		
2007	H 7	2385	G 5	2399	H 3	2603	D 3	2832	D 6	3616	C 6	3862	D 7	5605	F 2	6785	B 7	7601	G 3	9502	D 7	9519	A 5		

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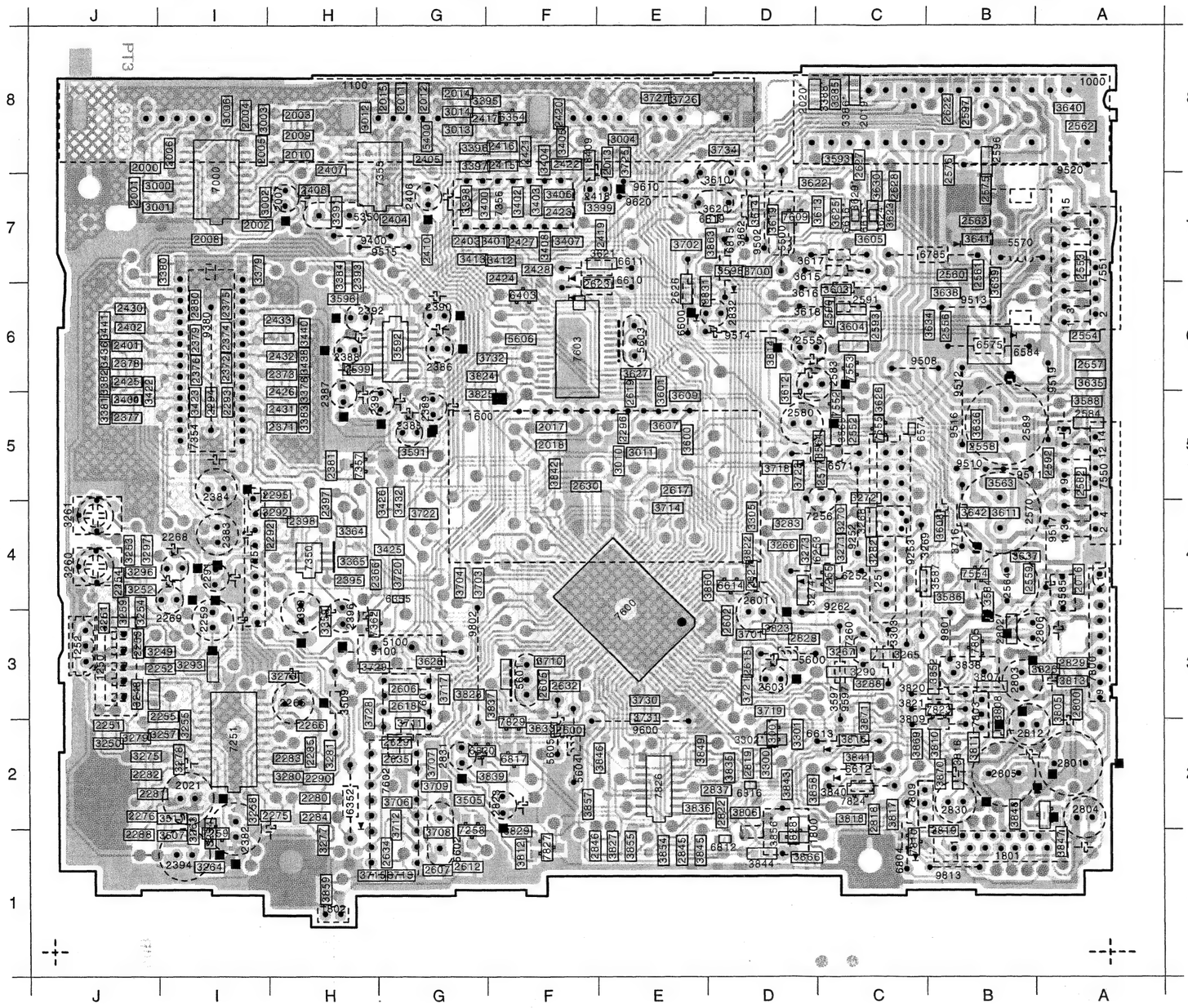
22DC594/62F
22DC594/62L



2000	J 8	2427	F 7	3255	I 2	3505	G 2	3732	F 6	7362	H 3														
2001	J 7	2428	F 7	3257	I 2	3507	I 1	3734	D 8	7552	C 5														
2002	I 7	2430	J 6	3258	I 2	3511	I 2	3805	A 3	7553	C 6														
2003	H 8	2431	H 5	3259	J 3	3563	B 5	3806	D 2	7554	B 4														
2004	I 8	2432	H 6	3263	I 1	3564	C 5	3807	B 3	7555	C 5														
2005	I 8	2433	H 6	3264	I 1	3565	C 5	3808	B 2	7600	E 3														
2006	I 8	2552	C 5	3265	C 3	3584	B 4	3810	B 2	7603	F 6														
2008	I 7	2553	A 7	3266	D 4	3586	B 4	3811	B 2	7609	D 7														
2009	H 8	2554	A 6	3267	C 3	3587	C 4	3812	F 1	7805	B 3														
2010	H 8	2556	B 6	3268	C 4	3588	A 5	3813	A 3	7810	C 1														
2011	G 8	2557	A 6	3270	C 4	3591	G 5	3814	D 6	7823	B 3														
2012	G 8	2558	B 5	3271	C 4	3592	G 6	3815	C 2	7824	C 2														
2013	E 8	2559	B 4	3272	C 5	3593	C 8	3816	B 2	7826	E 2														
2014	G 8	2560	B 7	3273	D 4	3596	H 6	3817	C 2	7827	F 1														
2015	G 8	2561	B 7	3274	D 4	3598	D 7	3818	C 2	7828	D 1														
2016	A 4	2562	A 8	3275	J 2	3599	H 6	3819	B 1	7829	F 2														
2017	F 5	2563	B 7	3276	H 3	3600	E 5	3822	D 4																
2018	F 5	2575	B 7	3277	H 1	3601	E 6	3823	D 3																
2019	C 8	2576	B 8	3278	I 2	3603	C 6	3824	G 6																
2020	D 8	2577	C 5	3279	J 2	3604	C 6	3825	G 5																
2251	J 2	2582	A 5	3280	H 2	3605	C 7	3826	A 3																
2252	I 3	2584	A 5	3281	H 2	3607	E 5	3827	E 1																
2253	J 3	2590	C 6	3282	C 4	3608	B 4	3828	G 3																
2254	J 4	2591	C 6	3283	D 4	3609	E 5	3829	F 1																
2255	I 3	2592	A 5	3288	C 3	3611	B 4	3831	E 6																
2266	H 2	2593	C 6	3290	C 3	3612	D 6	3833	F 2																
2275	H 2	2596	B 8	3292	H 4	3613	C 7	3835	D 2																
2276	J 2	2597	B 8	3293	I 3	3614	D 7	3836	E 2																
2280	H 2	2600	F 2	3294	I 1	3619	D 7	3837	F 3																
2281	J 2	2602	D 3	3296	J 4	3621	E 7	3839	F 2																
2282	J 2	2605	F 3	3297	J 4	3622	D 7	3841	C 2																
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2284	H 2	2607	G 1	3301	D 2	3624	C 7	3843	D 2																
2285	H 2	2612	G 1	3302	D 2	3625	C 7	3844	D 1																
2288	J 1	2615	D 3	3305	D 4	3626	C 5	3845	E 1																
2290	H 2	2617	E 5	3359	H 3	3627	E 6	3846	E 2																
2292	H 4	2618	G 3	3364	H 4	3628	G 3	3847	A 1																
2293	I 5	2619	E 5	3365	H 4	3629	C 7	3848	B 2																
2294	I 5	2622	B 8	3378	H 6	3630	C 7	3849	E 2																
2295	H 5	2623	E 6	3379	I 7	3634	B 6	3852	B 3																
2296	E 5	2626	E 6	3380	I 7	3635	A 6	3854	E 1																
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2371	H 5	2628	C 7	3382	J 6	3637	B 4	3856	D 1																
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2375	I 6	2634	G 1	3385	C 8	3641	B 7	3860	D 4																
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2379	I 6	2818	C 2	3395	F 8	3702	E 7	3870	B 2																
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2397	H 4	2829	A 3	3400	G 7	3708	G 1	6354	F 8																
2398	H 4	2837	D 2	3401	F 7	3709	G 2	6355	G 4																
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2401	J 6	2846	F 1	3403	F 7	3711	G 2	6574	C 5																
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2408	H 7	3006	I 8	3409	F 8	3718	D 5	6816	D 2																
2410	G 7	3010	E 5	3412	F 7	3719	D 3	6817	F 2																
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2416	F 8	3012	H 8	3422	J 6	3721	D 3	6820	G 2																
2417	F 8	3013	G 8	3423	I 5	3722	G 4	7000	I 7																
2419	E 7	3014	G 8	3425	G 4	3723	D 5	7251	I 2																
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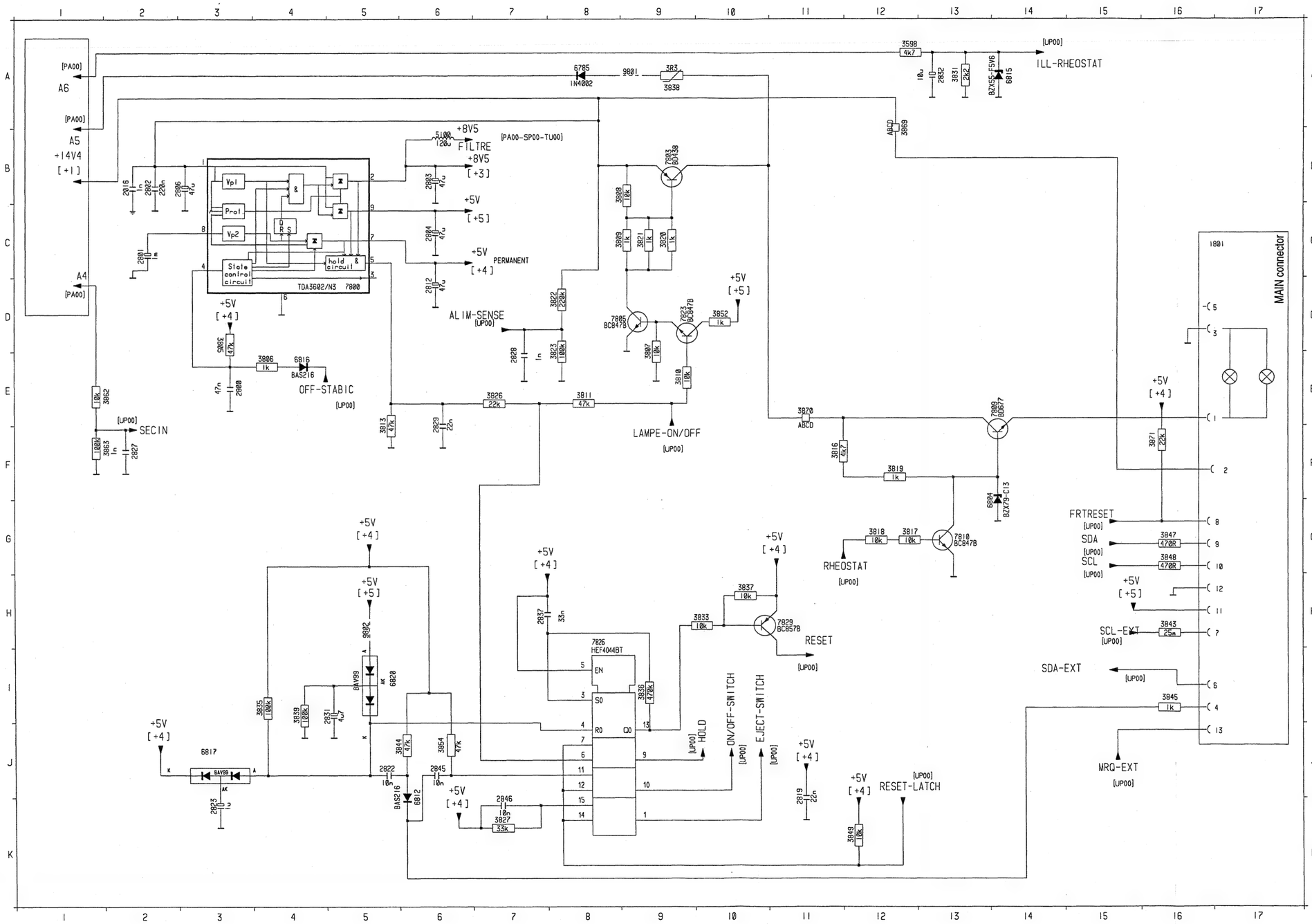
2421	F 8	3249	I 3	3432	G 4	3726	E 8	7258	G 1																
2422	F 8	3250	J 2	3434	J 5	3727	E 8	7259	I 1																
2423	F 7	3251	J 3	3436	J 6	3728	H 3	7300	D 2																
2424	F 7	3252	J 4	3438	H 6	3729	H 3	7350	H 4																
2425	J 6	3253	J 4	3440	H 6	3730	E 3	7355	G 7																
2426	H 5	3254	J 3	3441	J 6	3731	E 2	7357	H 5																

POWER SUPPLY PART
22DC593/62L
22DC594/62F../62L

A4	D1	FRTRESET	G15	ON/OFF-SWITCH	J10	SDA	G15
A5	A1	HOLD	J10	RESET	I11	SDA-EXT	I15
A6	A1	ILL-RHEOSTAT	A14	RESET-LATCH	J12	SECIN	F2
ALIM-SENSE	D7	LAMPE-ON/OFF	E9	RHEOSTAT	G11		
EJECT-SWITCH	J10	MRQ-EXT	J15	SCL	G15		
FILTRE	B6	OFF-STABIC	E4	SCL-EXT	H15		



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	2016	B 2	7810	G13			
	2800	E 3	7823	D 9			
	2801	C 2	7826	H 8			
	2802	B 2	7829	H11			
A	2803	B 6	9801	A 9			
	2804	C 6	9802	H 5			
	2806	B 3					
	2812	D 6					
	2819	J11					
	2822	J 5					
	2823	K 3					
B	2827	F 2					
	2828	E 7					
	2829	E 6					
	2831	I 5					
	2832	A13					
	2837	H 7					
C	2845	J 6					
	2846	K 7					
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	3808	B 9					
D	3809	C 9					
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F	3823	D 8					
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	3827	K 7					
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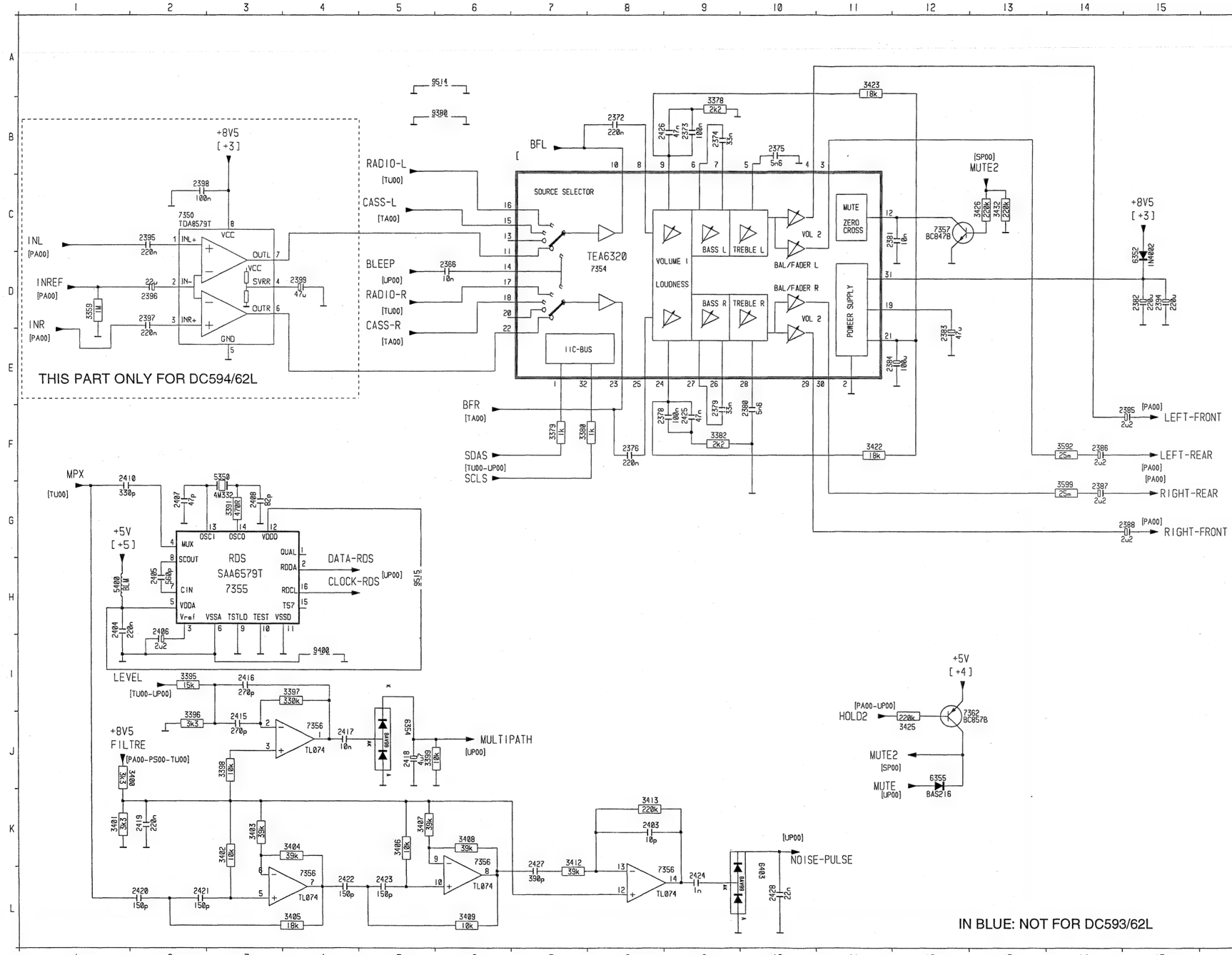
	3833	H10					
	3835	I 4					
G	3836	I 9					
	3837	H10					
	3838	A 9					
	3839	I 4					
	3843	H16					
	3844	J 6					
H	3845	I16					
	3847	G16					
	3848	G16					
	3849	K12					
	3852	D10					
	3854	J 6					
I	3862	E 1					
	3863	F 1					
	3869	A12					
	3870	E11					
	3871	F16					
	5100	B 6					
J	6785	A 8					
	6804	G14					
	6812	J 6					
	6815	A14					
	6816	E 4					
	6817	J 3					
	6820	I 5					
K	7800	D 5					
	7803	B 9					
	7805	D 9					

SOUND PROCESSING PART
22DC593/62F../62L
22DC594/62F../62L

BFL B7
BFR E6
BLEEP D5
CASS-L C5
CASS-R D5
CLOCK-RDS H4
DATA-RDS H4
HOLD2 ..... I11
INL C1
INR D1
INREF D1
LEFT-FRONT E15
LEFT-REAR F15
LEVEL I2
MPX F1
MULTIPATH J6
MUTE J12
MUTE2 ..... J12/C13
NOISE-PULSE K10
RADIO-L B5
RADIO-R D5
RIGHT-FRONT F15
RIGHT-REAR G15
SCLS F6
SDAS F6



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A 2374	B10	6355	J11	3380	F 8	3599	L14	7356	K 6
2375	B11	6403	K10	3382	F10	5350	F 3	7356	L 8
2376	F 9	7350	C 3	3391	G 3			7357	C14
2378	F 9	7354	D 9	3395	I 2			7362	I 1
2379	E10	7355	H 3	I 3396	J 2			9380	B 7
2380	E11	7356	J 4	3397	I 4			9400	I 4
B 2381	C12	7356	L 4	3398	J 3			9514	A 7
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C 2387	L15	9400	I 4	3404	K 4				
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2395	C 3			3407	K 5				
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D 2398	B 3			3412	K 7				
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2404	H 1			3423	A12				
2405	H 2			3425	J11				
2406	H 2			L					
E 2407	G 2								
2408	G 3								
2410	F 1								
2415	J 3								
2416	I 3								
2417	J 4								
F 2418	J 5								
2419	K 2								
2420	L 2								
2421	L 2								
2422	L 4								
2423	L 5								
G 2424	L 9								
2425	F10								
2426	B 9								
2427	K 7								
2428	L10								

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1600 F 5 2291 I 4 2391 G 5 2580 D 5 2812 B 2 3585 A 4 3820 B 3 5601 F 3 6610 E 6 7354 I 6 9253 C 4 9514 D 6 9801 B 3
1800 D 1 2382 I 2 2392 H 6 2583 D 6 2823 F 2 3597 C 3 3821 B 3 5602 G 1 6611 E 7 7356 F 7 9262 C 3 9515 G 7 9802 G 3
1801 B 1 2383 I 4 2394 I 1 2589 B 5 2830 B 2 3610 D 7 3838 B 3 5603 E 6 6612 C 2 7550 A 5 9380 I 6 9516 B 5 9813 B 1
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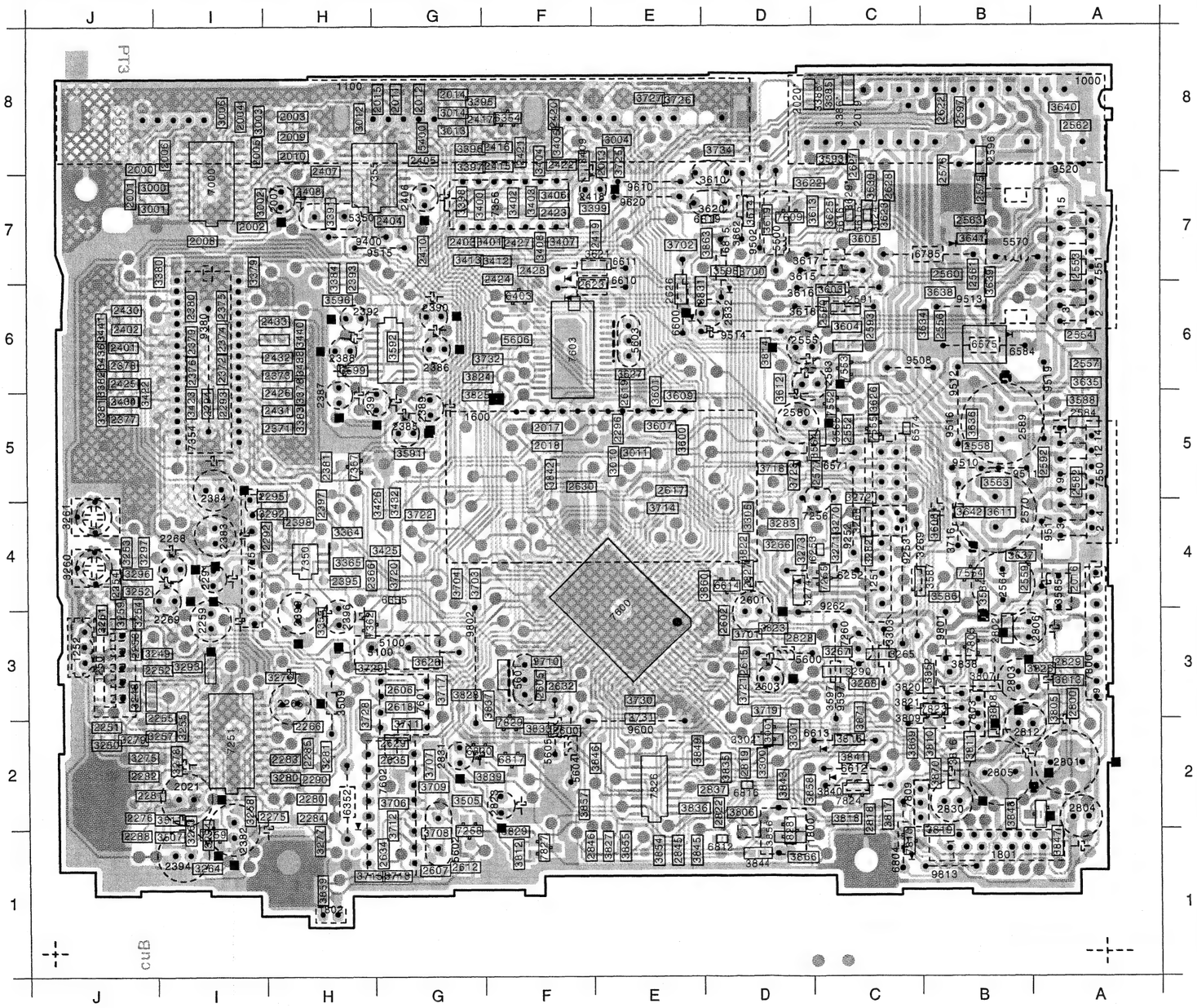
2007 H 7 2385 G 5 2399 H 3 2603 D 3 2832 D 6 3616 C 6 3862 D 7 5605 F 2 6785 B 7 7601 G 3 9502 D 7 9519 A 5

22DC593/62L
22DC594/62F
22DC594/62L



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2003 H 8 2431 H 5 3259 J 3 3563 B 5 3806 D 2 7554 B 4
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2005 I 8 2433 H 6 3264 I 1 3565 C 5 3808 B 2 7600 E 3
2006 I 8 2552 C 5 3265 C 3 3584 B 4 3810 B 2 7603 F 6
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2014 G 8 2560 B 7 3273 D 4 3596 H 6 3817 C 2 7827 F 1
2015 G 8 2561 B 7 3274 D 4 3598 D 7 3818 C 2 7828 D 1

2016 A 4 2562 A 8 3275 J 2 3599 H 6 3819 B 1 7829 F 2
2017 F 5 2563 B 7 3276 H 3 3600 E 5 3822 D 4
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2290 H 2 2617 E 5 3359 H 3 3627 E 6 3846 E 2
2292 H 4 2618 G 3 3364 H 4 3628 G 3 3847 A 1
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2294 I 5 2622 B 8 3378 H 6 3630 C 7 3849 E 2
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2373 H 6 2630 F 5 3383 H 5 3639 B 6 3858 D 2

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2376 I 6 2635 G 2 3386 C 8 3642 B 4 3863 D 7
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2379 I 6 2818 C 2 3395 F 8 3702 E 7 3870 B 2
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2393 H 7 2827 D 4 3398 G 7 3706 G 2 5606 F 6
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2397 H 4 2829 A 3 3400 G 7 3708 G 1 6354 F 8
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2401 J 6 2846 F 1 3403 F 7 3711 G 2 6574 C 5
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2404 G 7 3002 I 7 3406 F 7 3714 E 4 6615 C 7
2405 G 8 3003 I 8 3407 F 7 3715 H 1 6616 C 7
2407 H 8 3004 E 8 3408 F 7 3717 G 3 6812 D 1
2408 H 7 3006 I 8 3409 F 8 3718 D 5 6816 D 2

2410 G 7 3010 E 5 3412 F 7 3719 D 3 6817 F 2
2415 F 8 3011 E 5 3413 G 7 3720 G 4 6819 D 7
2416 F 8 3012 H 8 3422 J 6 3721 D 3 6820 G 2
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2420 F 8 3248 J 3 3426 G 4 3725 E 8 7255 C 4
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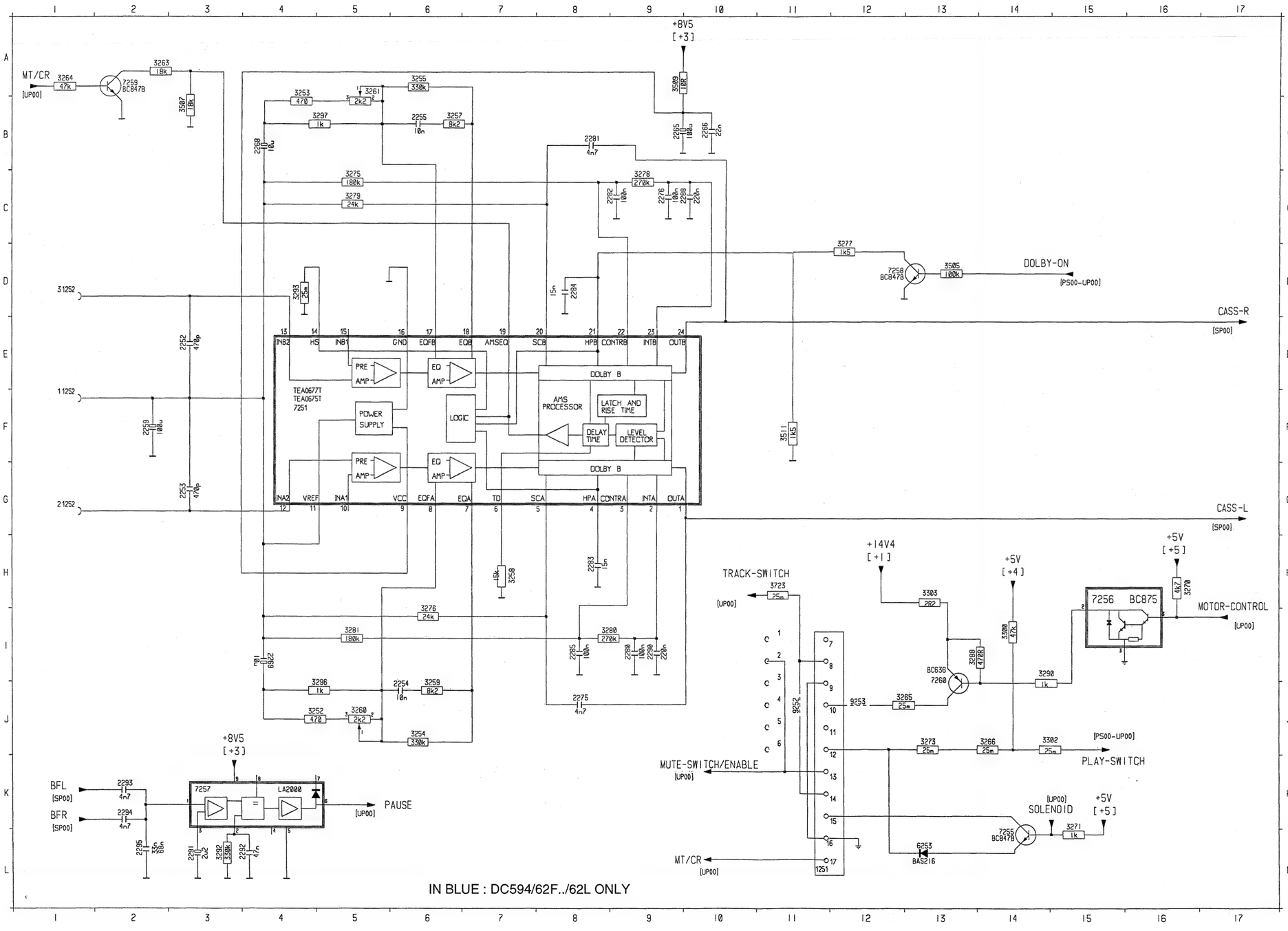
2424 F 7 3252 J 4 3438 H 6 3729 H 3 7350 H 4

2425 J 6 3253 J 4 3440 H 6 3730 E 3 7355 G 7
2426 H 5 3254 J 3 3441 J 6 3731 E 2 7357 H 5

BFL.....K1
BFR.....K1
CASS-L.....G17
CASS-R.....E17
DOLBY-ON.....D15
MOTOR-CONTROL.....I17
MT/CR.....A1/L10
MUTE-SWITCH/ENABLE....K10
PAUSE.....K5
PLAY-SWITCH.....J15
SOLENOID.....K15
TRACK-SWITCH.....H10

TAPE PART
22DC593/62L
22DC594/62F../62L



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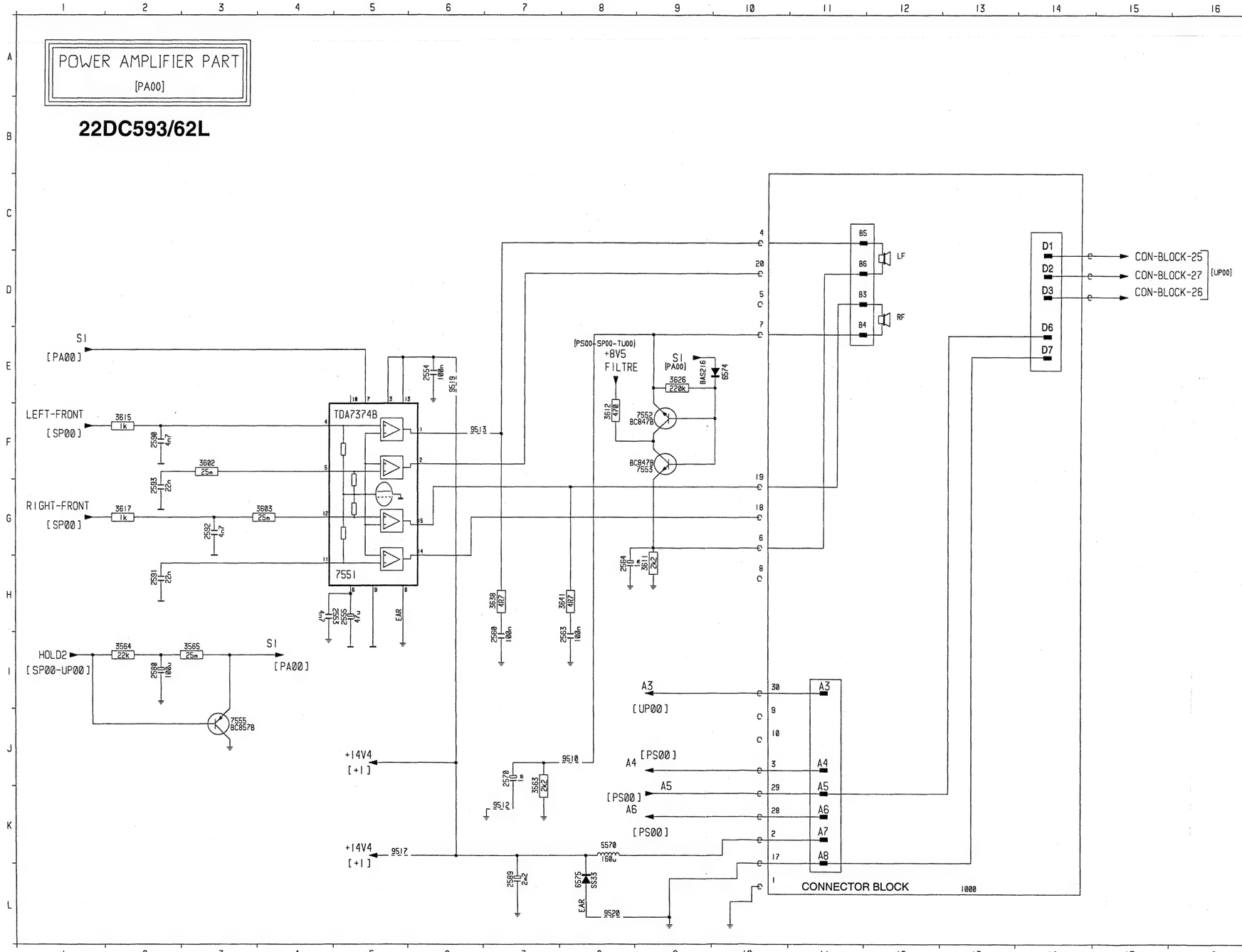
	2255	B 6
	2259	F 2
	2265	B 9
	2266	B10
	2268	B 4
	2269	I 4
B	2275	J 8
	2276	C 9
	2280	I 9
	2281	B 8
	2282	C 9
C	2283	H 8
	2284	D 8
	2285	I 8
	2288	C10
	2290	I 9
	2291	L 3
D	2292	L 4
	2293	K 2
	2294	K 2
	2295	L 2
	3252	J 5
	3253	A 4
E	3254	J 6
	3255	A 6
	3257	B 6
	3258	H 7
	3259	J 6
	3260	J 5
	3261	A 5
F	3263	A 2
	3264	A 1
	3265	J13
	3266	K14
	3270	H16
	3271	K17
G	3273	K13
	3275	C 5
	3276	I 6
	3277	D12
	3278	C 9
H	3279	C 5
	3280	I 9
	3281	I 5
	3288	I13
	3290	I14
	3292	L 3
I	3293	D 4
	3296	J 5
	3297	B 5
	3300	I14
	3302	K15
	3303	H1
J	3505	D13
	3507	B 3
	3509	A 9
	3723	H11
	6253	L13
	7251	F 4
	7255	L16
K	7256	H15
	7257	K 3
	7258	D12
	7259	A 2
	7260	J13
	9252	J11
L	9253	J12

POWER AMPLIFIER PART

[PA00]

22DC593/62L



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A	2555	H 5
	2560	I 7
	2563	I 8
	2564	H 8
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B	2589	L 7
	2590	F 2
	2591	H 2
	2592	G 3
	2593	G 2
	3563	J 7
C	3564	I 2
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D	3615	F 2
	3617	G 2
	3626	E 9
	3638	H 7
	3641	H 8
	5570	K 8
E	6574	E10
	6575	L 8
	7551	H 5
	7552	F 9
	7553	F 9
	7555	J 3
F	9510	J 8
	9512	K 7
	9513	F 6
	9517	K 5
	9519	E 6
	9520	L 8

POWER AMPLIFIER PART

[PA00]

22DC594/62L../62F

TDA7374B

7550

TDA7374B

7551

LEFT-FRONT [SP00]

RIGHT-REAR [SP00]

RIGHT-FRONT [SP00]

LEFT-REAR [SP00]

HOLD2 [SP00-UP00]

HOT-INFO [UP00]

+5V [+5]

+14V4 [+1]

LF

RF

LR

RR

CONNECTOR BLOCK

CON-BLOCK-25 [UP00]

CON-BLOCK-27 [UP00]

CON-BLOCK-26 [UP00]

DB+ [UP00]

DB- [UP00]

INR [SP00]

INL [SP00]

INREF [SP00]

A3 [UP00]

A4 [PS00]

A5 [PS00]

A6 [PS00]

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2555	H	5
2556	C	7
2557	C	7
2558	C	8
2559	C	8
2560	I	7
2561	I	7
2562	I	7
2563	I	8
2570	J	7
2580	I	2
2582	D	5
2583	D	5
2584	A	6
2589	L	7
2590	F	2
2591	H	2
2592	G	3
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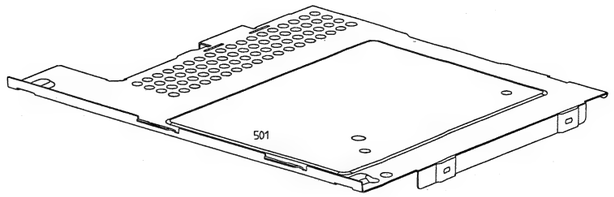
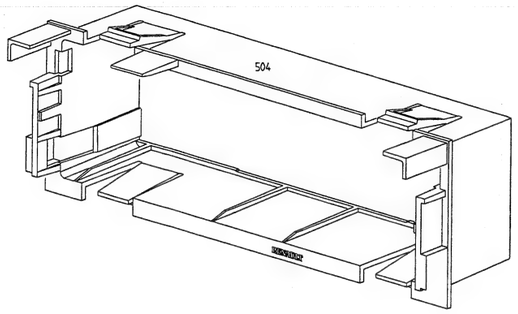
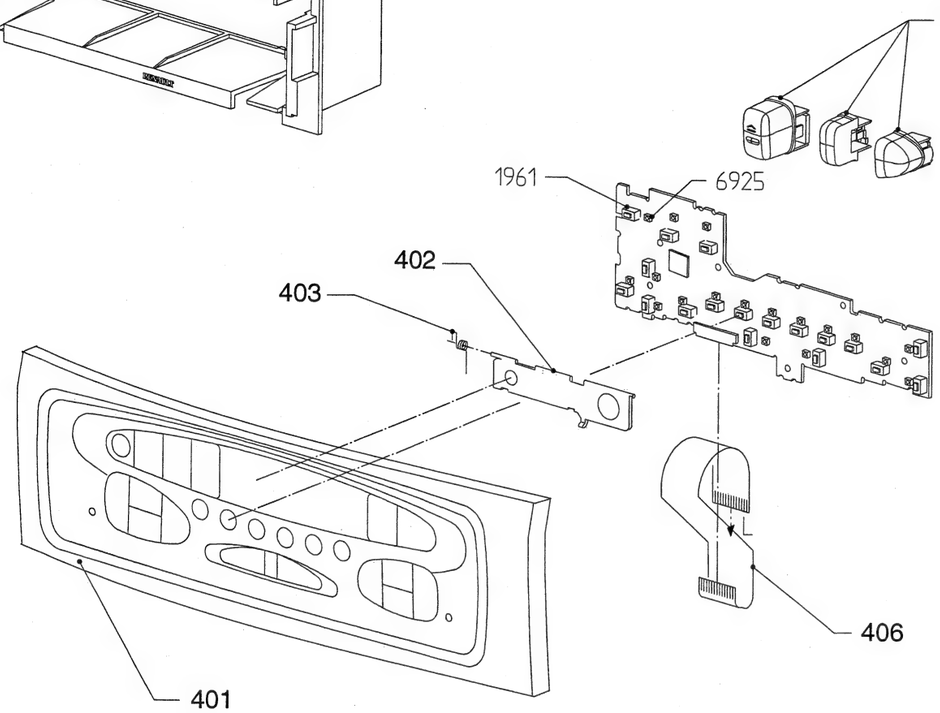
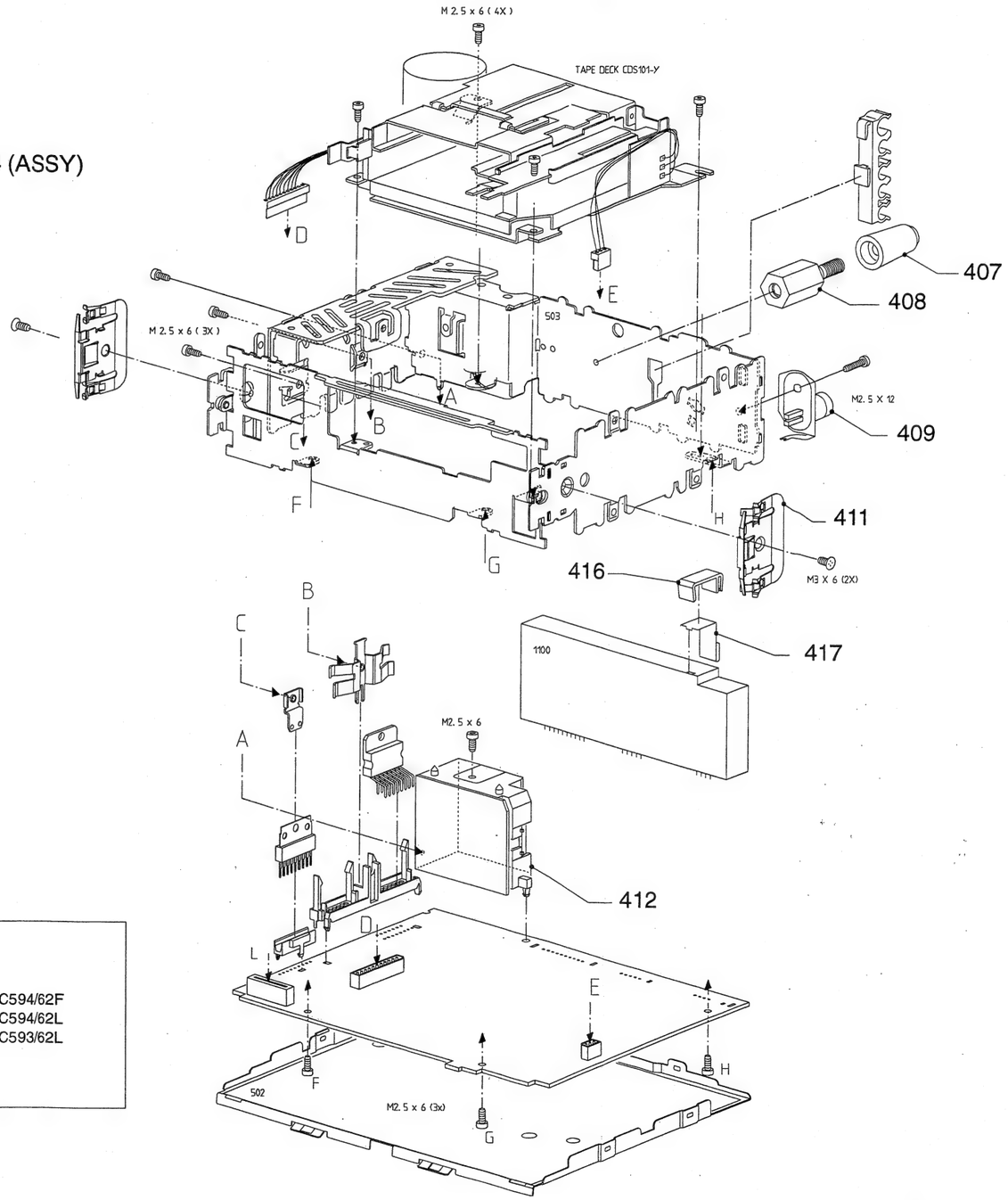
9513	F	6
9516	K	7
9517	K	5
9519	E	6
9520	L	8

22DC594/62L../62F
22DC593/62L









401	4822 459 04183	ORNAMENTAL PLATE for DC594/62F.	408	4822 462 72016	METAL SPACER
401	4822 459 04184	ORNAMENTAL PLATE for DC594/62L	409	4822 267 31702	AERIAL BUSH ASSY
401	4822 459 04245	ORNAMENTAL PLATE for DC593/62L	411	4822 492 71523	MOUNTING SPRING
402	4822 443 10316	FLAP CASS PRINTED for DC594/62F/62L	412	4822 264 10321	CONNECTOR BLOCK for DC594/62F
402	4822 443 10386	FLAP CASS PRINTED for DC593/62L	412	4822 265 10613	CONNECTOR BLOCK for DC594/62L
403	4822 492 71033	FLAP SPRING	412	4822 265 10663	CONNECTOR BLOCK for DC593/62L
404	4822 410 63652	SET OF BUTTONS DECK	416	4822 404 21276	HOOK IC91
406	4822 466 10681	FOIL FLEX	417	4822 492 71412	SPRING GROUNDING
407	4822 532 12177	SPACER			

Miscellaneous		
1100	4822 210 10705	MODULE TUNER IC91
C		
2011	5322 122 34098	10nF 10% X7R 63V
2012	5322 122 34098	10nF 10% X7R 63V
2013	5322 126 10223	4,7nF 10% X7R 63V
2014	5322 126 10223	4,7nF 10% X7R 63V
2015	5322 122 34123	1nF 10% X7R 50V
2016	5322 122 34123	1nF 10% X7R 50V
2252	5322 126 10184	820pF 50V 5% CER1 0805
2253	5322 126 10184	820pF 50V 5% CER1 0805
2254	5322 122 34098	10nF 10% X7R 63V
2255	5322 122 34098	10nF 10% X7R 63V
2259	4822 124 80453	100µF 20% 10V
2265	4822 124 80453	100µF 20% 10V
2266	5322 122 32654	22nF 10% X7R 63V
2268	4822 124 41017	10µF 16V
2269	4822 124 41017	10µF 16V
2275	5322 126 10223	4,7nF 10% X7R 63V
2276	4822 126 13196	100nF 10% X7R 25V
2280	4822 126 13196	100nF 10% X7R 25V
2281	5322 126 10223	4,7nF 10% X7R 63V
2282	4822 126 13196	100nF 10% X7R 25V
2283	4822 126 13188	15nF 5% X7R 63V
2284	4822 126 13188	15nF 5% X7R 63V
2285	4822 126 13196	100nF 10% X7R 25V
2288	4822 126 13849	220nF 10% 16V X7R 0805
2290	4822 126 13849	220nF 10% 16V X7R 0805
2291	4822 124 23504	2.2µF 20% 50V
2292	4822 126 13343	47nF 10% X7R 25V
2293	5322 126 10223	4,7nF 10% X7R 63V
2294	5322 126 10223	4,7nF 10% X7R 63V
2295	4822 126 13392	68nF 10% X7R 0805
2366	5322 122 34098	10nF 10% X7R 63V
2372	4822 126 13849	220nF 10% 16V X7R 0805
2373	4822 126 13196	100nF 10% X7R 25V
2374	4822 122 33342	33nF 0% X7R 63V
2375	4822 122 32646	5,6nF 10% X7R 50V
2376	4822 126 13849	220nF 10% 16V X7R 0805
2378	4822 126 13196	100nF 10% X7R 25V
2379	4822 122 33342	33nF 10% X7R 63V
2380	4822 122 32646	5,6nF 10% X7R 50V
2381	5322 122 34098	10nF 10% X7R 63V
2382	4822 124 23582	220µF 10V
2383	4822 124 22646	47µF 20% 16V
2384	4822 124 80453	100µF 20% 10V
2385	4822 124 23504	2,2µF 20% 50V
2386	4822 124 23504	2,2µF 20% 50V
2387	4822 124 23504	2,2µF 20% 50V
2388	4822 124 23504	2,2µF 20% 50V
2394	4822 124 23582	220µF 10V
2403	5322 122 32448	10pF 5% 50V
2404	4822 126 13849	220nF 10% 16V X7R 0805
2405	5322 116 80853	560pF 5% NP0 63V
2406	4822 124 23504	2.2µF 20% 50V
2407	5322 122 32452	47pF 5% NP0 63V
2408	4822 122 33515	82pF 5% NP0 63V
2410	5322 122 31863	330pF 5% NP0 50V

C		
2415	4822 122 33216	270P 50V NP0 0805
2416	4822 122 33216	270P 50V NP0 0805
2417	5322 122 34098	10nF 10% X7R 63V
2418	4822 124 80765	4.7µF 20% 35V
2419	4822 126 13849	220nF 10% 16V X7R 0805
2420	5322 122 33538	150pF 2% NP0 63V
2421	5322 122 33538	150pF 2% NP0 63V
2422	5322 122 33538	150pF 2% NP0 63V
2423	5322 122 33538	150pF 2% NP0 63V
2424	5322 122 34123	1nF 10% X7R 50V
2425	4822 126 13343	47nF 10% X7R 25V
2426	4822 126 13343	47nF 10% X7R 25V
2427	4822 122 32636	390pF 5% SL 50V
2428	5322 122 32654	22nF 10% X7R 63V
2553	5322 126 10223	4,7nF 10% X7R 63V
2554	4822 122 33496	100nF 10% X7R 63V
2555	5322 124 41938	47µF 6V3
2556	4822 126 13196	100nF 25V 10% X7R 0805
2557	4822 126 13196	100nF 25V 10% X7R 0805
2558	4822 126 13196	100nF 25V 10% X7R 0805
2559	4822 126 13196	100nF 25V 10% X7R 0805
2560	4822 126 13196	100nF 10% X7R 25V
2561	4822 126 13196	100nF 10% X7R 25V
2562	4822 126 13196	100nF 10% X7R 25V
2563	4822 126 13196	100nF 10% X7R 25V
2570	4822 124 80769	2200µF 20% 16V
2580	4822 124 23281	33µF 20% 16V
2582	5322 126 10223	4,7nF 10% 50V X7R
2583	5322 124 41938	47µF 20% 6V3
2584	4822 122 33496	100nF 10% 50V X7R 1206
2589	4822 124 80769	2200U 20% 16V
2590	5322 126 10223	4,7nF 10% X7R 63V
2591	5322 126 10223	4,7nF 10% X7R 63V
2592	5322 126 10223	4,7nF 10% X7R 63V
2593	5322 126 10223	4,7nF 10% X7R 63V
2600	5322 122 32654	22nF 10% X7R 63V
2601	4822 124 22646	47µF 20% 16V
2602	4822 126 13196	100nF 10% X7R 25V
2603	4822 124 41017	10µF 16V
2605	5322 122 32658	22pF 5% 50V
2606	4822 126 13196	100nF 10% X7R 25V
2615	4822 122 33342	33nF 10% X7R 63V
2617	4822 122 33342	33nF 10% X7R 63V
2618	5322 122 32654	22nF 10% X7R 63V
2622	5322 122 34123	1nF 10% X7R 50V
2630	5322 122 34123	1nF 10% X7R 50V
2632	5322 122 32268	470pF 10% 50V
2634	5322 122 32531	100pF 5% NP0 50V
2635	5322 126 10223	4,7nF 10% X7R 63V
2800	4822 126 13343	47nF 10% X7R 25V
2801	4822 124 80766	1000µF 20% 25V
2802	4822 126 13849	220nF 10% 16V X7R 0805
2803	4822 124 22646	47µF 20% 16V
2804	4822 124 22646	47µF 20% 16V
2806	4822 124 11562	47µF 20% 35V
2812	4822 124 22646	47µF 20% 16V
2819	5322 122 32654	22nF 10% X7R 63V
2822	5322 122 34098	10nF 10% X7R 63V
2823	4822 124 23282	1µF 20% 50V
2827	5322 122 34123	1nF 10% X7R 50V

C		
2828	5322 122 34123	1nF 10% X7R 50V
2829	5322 122 32654	22nF 10% X7R 63V
2831	4822 124 80765	4.7µF 20% 35V
2832	4822 124 41017	10µF 16V
2837	4822 122 33342	33nF 10% X7R 63V
2845	5322 122 34098	10nF 10% X7R 63V
2846	5322 122 34098	10nF 10% X7R 63V
R		
3004	4822 051 20223	22KΩ 5% RC11 0805
3012	4822 051 20102	1KΩ 5% 0,1W
3013	4822 051 20273	27KΩ5% RC11 0805
3014	4822 051 20104	100KΩ 5% 0,1W
3252	4822 051 20471	470Ω 5% 0,1W
3253	4822 051 20471	470Ω 5% 0,1W
3254	4822 051 20334	330KΩ 5% 0,1W
3255	4822 051 20334	330KΩ 5% 0,1W
3257	4822 051 20822	8K20 5% 0,1W
3258	4822 051 20153	15KΩ 5% 0,1W
3259	4822 051 20822	8K20 5% 0,1W
3260	4822 100 11681	CAR LIN 1KΩ
3261	4822 100 11681	CAR LIN 1KΩ
3263	4822 051 20183	18KΩ 5% 0,1W
3264	4822 051 20473	47KΩ 5% 0,1W
3265	4822 051 20008	0Ω JUMP. (0805)
3266	4822 051 20008	0Ω JUMP. (0805)
3270	4822 051 20472	4K70 5% 0,1W
3271	4822 051 20102	1KΩ 5% 0,1W
3273	4822 051 20008	0Ω JUMP. (0805)
3275	4822 051 20184	180KΩ 5% 0,1W
3276	4822 117 10507	24KΩ 1% 0.1W
3277	4822 117 11139	1K5 1% 0,1W
3278	4822 051 20274	270KΩ 5% 0,1W
3279	4822 117 10507	24KΩ 1% 0.1W
3280	4822 051 20274	270KΩ 5% 0,1W
3281	4822 051 20184	180KΩ 5% 0,1W
3288	4822 051 20471	470Ω 5% 0,1W
3290	4822 051 20102	1KΩ 5% 0,1W
3292	4822 051 20334	330KΩ 5% 0,1W
3293	4822 051 20008	0Ω JUMP. (0805)
3300	4822 051 20473	47KΩ 5% 0,1W
3302	4822 051 20008	0Ω JUMP. (0805)
3303	4822 117 10179	2Ω2 5% 0,5W
3378	4822 117 11449	2K2 1% 0,1W
3379	4822 051 20102	1KΩ 5% 0,1W
3380	4822 051 20102	1KΩ 5% 0,1W
3382	4822 117 11449	2K2 1% 0,1W
3391	4822 051 20471	470Ω 5% 0,1W
3395	4822 051 20153	15KΩ5% RC11 0805
3396	4822 051 20332	3K3 5% RC11 0805
3397	4822 051 20334	330KΩ5% RC11 0805
3398	4822 117 10833	10KΩ 1% 0,1W
3399	4822 117 10833	10KΩ 1% 0,1W
3400	4822 051 20332	3K3 5% 0,1W
3401	4822 051 20332	3K3 5% 0,1W
3402	4822 117 10833	10KΩ 1% 0,1W
3403	4822 051 20393	39KΩ 5% 0,1W
3404	4822 051 20393	39KΩ 5% 0,1W
3405	4822 051 20183	18KΩ 5% 0,1W

R		
3406	4822 117 10833	10KΩ 1% 0,1W
3407	4822 051 20393	39KΩ 5% 0,1W
3408	4822 051 20393	39KΩ 5% 0,1W
3409	4822 117 10833	10KΩ 1% 0,1W
3412	4822 051 20393	39KΩ 5% 0,1W
3413	4822 051 20224	220KΩ 5% 0,1W
3422	4822 051 20183	18KΩ 5% RC11 0805
3423	4822 051 20183	18KΩ 5% RC11 0805
3425	4822 051 20224	220KΩ 5% 0,1W
3426	4822 051 20224	220KΩ 5% 0,1W
3432	4822 051 20224	220KΩ 5% 0,1W
3505	4822 051 20104	100KΩ 5% 0,1W
3509	4822 116 52176	10Ω 5% 0,5W
3564	4822 051 20223	22KΩ 5% 0,1W
3565	4822 051 20102	1KΩ 5% RC11 0805
3584	4822 051 20392	3K9 5% 0,1W
3585	4822 116 40254	330Ω
3586	4822 051 20223	22KΩ 5% 0,1W
3587	4822 051 20223	22KΩ 5% 0,1W
3592	4822 051 20008	0Ω JUMP. (0805)
3598	4822 051 20472	4K70 5% 0,1W
3599	4822 051 20008	0Ω JUMP. (0805)
3600	4822 051 20008	0Ω JUMP. (0805)
3601	4822 051 20008	0Ω JUMP. (0805)
3604	4822 051 20008	0Ω JUMP. (0805)
3605	4822 051 20008	0Ω JUMP. (0805)
3607	4822 051 20008	0Ω JUMP. (0805)
3609	4822 051 20008	0Ω JUMP. (0805)
3613	4822 051 20333	33KΩ 5% 0,1W
3614	4822 051 20104	100KΩ 5% 0,1W
3615	4822 116 83863	1KΩ 5% 0,5W
3616	4822 116 83863	1KΩ 5% 0,5W
3617	4822 116 83863	1KΩ 5% 0,5W
3618	4822 116 83863	1KΩ 5% 0,5W
3619	4822 117 11449	2K2 1% 0,1W
3628	4822 051 20008	0Ω JUMP. (0805)
3634	4822 051 20478	4Ω7 5% RC11 0805
3635	4822 051 20478	4Ω7 5% RC11 0805
3636	4822 051 20478	4Ω7 5% RC11 0805
3637	4822 051 20478	4Ω7 5% RC11 0805
3638	4822 051 20478	4R7 5% RC11 0805
3639	4822 051 20478	4R7 5% RC11 0805
3640	4822 051 20478	4R7 5% RC11 0805
3641	4822 051 20478	4R7 5% RC11 0805
3700	4822 117 10833	10KΩ 1% 0,1W
3701	4822 051 20101	100Ω 5% 0,1W
3702	4822 051 20331	330R 5% RC11 0805
3703	4822 117 10833	10KΩ 1% 0,1W
3704	4822 117 10833	10KΩ 1% 0,1W
3706	4822 051 20008	0Ω JUMP. (0805)
3707	4822 051 20008	0Ω JUMP. (0805)
3709	4822 051 20153	15KΩ 5% 0,1W
3710	4822 051 20471	470Ω 5% 0,1W
3711	4822 051 20153	15KΩ 5% 0,1W
3712	4822 051 20008	0Ω JUMP. (0805)
3713	4822 051 20473	47KΩ 5% 0,1W
3714	4822 051 20473	47KΩ 5% 0,1W
3717	4822 117 10833	10KΩ 1% 0,1W
3718	4822 051 20472	4K70 5% 0,1W
3720	4822 051 20102	1KΩ 5% 0,1W

3721	4822 051 20153	15KΩ 5% 0,1W
3723	4822 051 20008	0R05 JUMPER 0805
3725	4822 051 20104	100KΩ 5% 0,1W
3726	4822 051 20101	100Ω 5% 0,1W
3727	4822 051 20101	100Ω 5% 0,1W
3728	4822 117 10833	10KΩ 1% 0,1W
3729	4822 117 10833	10KΩ 1% 0,1W
3730	4822 051 20153	15KΩ 5% 0,1W
3731	4822 051 20473	47KΩ 5% 0,1W
3734	4822 051 20153	15KΩ 5% RC11 0805
3805	4822 051 20473	47KΩ 5% 0,1W
3806	4822 051 20102	1KΩ 5% 0,1W
3807	4822 117 10833	10KΩ 1% 0,1W
3808	4822 117 10833	10KΩ 1% 0,1W
3809	4822 116 83863	1KΩ 5% 0,5W
3810	4822 117 10833	10KΩ 1% 0,1W
3811	4822 051 20473	47KΩ 5% 0,1W
3813	4822 051 20473	47KΩ 5% 0,1W
3816	4822 051 20472	4K70 5% 0,1W
3817	4822 117 10833	10KΩ 1% 0,1W
3818	4822 117 10833	10KΩ 1% 0,1W
3819	4822 051 20102	1KΩ 5% 0,1W
3820	4822 116 83863	1KΩ 5% 0,5W
3821	4822 116 83863	1KΩ 5% 0,5W
3822	4822 051 20224	220KΩ 5% 0,1W
3823	4822 051 20104	100KΩ 5% 0,1W
3824	4822 117 10833	10KΩ 1% 0,1W
3825	4822 117 10833	10KΩ 1% 0,1W
3826	4822 051 20223	22KΩ 5% 0,1W
3827	4822 051 20333	33KΩ 5% 0,1W
3828	4822 117 10833	10KΩ 1% 0,1W
3831	4822 117 11449	2K2 1% 0,1W
3833	4822 117 10833	10KΩ 1% 0,1W
3835	4822 051 20104	100KΩ 5% 0,1W
3836	4822 051 20474	470KΩ 5% 0,1W
3837	4822 117 10833	10KΩ 1% 0,1W
3838	4822 116 40267	3R3 25% 20V
3839	4822 051 20104	100KΩ 5% 0,1W
3842	4822 117 10833	10KΩ 1% 0,1W
3843	4822 051 20008	0R05 JUMPER 0805
3844	4822 051 20473	47KΩ 5% 0,1W
3845	4822 051 20102	1KΩ 5% 0,1W
3846	4822 051 20102	1KΩ 5% 0,1W
3847	4822 051 20471	470Ω 5% 0,1W
3848	4822 051 20471	470Ω 5% 0,1W
3849	4822 117 10833	10KΩ 1% 0,1W
3852	4822 051 20102	1KΩ 5% 0,1W
3854	4822 051 20473	47KΩ 5% 0,1W
3860	4822 051 20104	100KΩ 5% 0,1W
3862	4822 116 83864	10KΩ 5% CRB R-20
3863	4822 051 20104	100KΩ 5% 0,1W
3869	4822 051 20008	0Ω JUMP. (0805)
3870	4822 051 20008	0Ω JUMP. (0805)
3871	4822 051 20223	22KΩ 5% RC11 0805

5100	4822 157 71433	120UH 10%LAL05TB121K
5350	4822 242 80259	LN-G38-311 (4,332MHZ)
5400	4822 157 71206	BLM21A10PT
5570	4822 157 70935	97UH 10A
5600	4822 157 52983	22UH 10%
5601	4822 242 81959	CST11.5MTW
5603	4822 242 81002	CST6,00MGW-TF01
5604	4822 157 60122	
5605	4822 157 60122	

6253	4822 130 83757	DIODE BAS16
6352	5322 130 30684	1N4002GPE
6354	5322 130 34337	BAV99
6355	4822 130 83757	DIODE BAS216
6403	5322 130 34337	BAV99
6575	4822 130 10488	SM DIO S3G
6600	4822 130 34173	ZENER BZX55-F5V6
6614	5322 130 34331	BAV70
6615	4822 130 83757	DIODE BAS216
6785	5322 130 30684	1N4002GPE
6804	4822 130 34195	BZX79-C13
6812	4822 130 83757	DIODE BAS216
6815	4822 130 34173	BZX55-F5V6
6816	4822 130 83757	DIODE BAS216
6817	5322 130 34337	BAV99
6818	5322 130 34331	BAV70
6819	4822 130 83757	DIODE BAS216
6820	5322 130 34337	BAV99

7251	4822 209 32744	TEA0675T/V1
7255	4822 130 60511	BC847B
7256	5322 130 61677	BC875
7257	4822 209 83159	LA2000
7258	4822 130 60511	BC847B
7259	4822 130 60511	BC847B
7260	4822 130 44283	BC636
7354	4822 209 32745	TEA6320/V1
7355	4822 209 31981	SAA6579T/V1
7356	4822 209 32742	TL074IN
7357	4822 130 60511	BC847B
7362	5322 130 60508	BC857B
7550	4822 209 90404	TDA7374B
7551	4822 209 31132	TDA7374V
7551	4822 209 90404	TDA7374B
7554	4822 130 60511	BC847B
7555	5322 130 60508	BC857B
7600	4822 209 13609	P83CE558EFB/0
7601	**4822 900 xxxxx**	**EEPROM SECURITY CODE**
7602	5322 209 10468	HEF4521BP
7609	4822 130 60511	BC847B
7800	4822 209 33029	TDA3602/N3
7803	4822 130 40995	BD438(141Y)
7805	4822 130 60511	BC847B
7809	4822 130 41484	BD677(142Y)
7810	4822 130 60511	BC847B
7823	4822 130 60511	BC847B
7826	4822 209 12628	HEF4044BT
7829	5322 130 60508	BC857B

Car cassette deck CDS-101SPF

Service
Service
Service

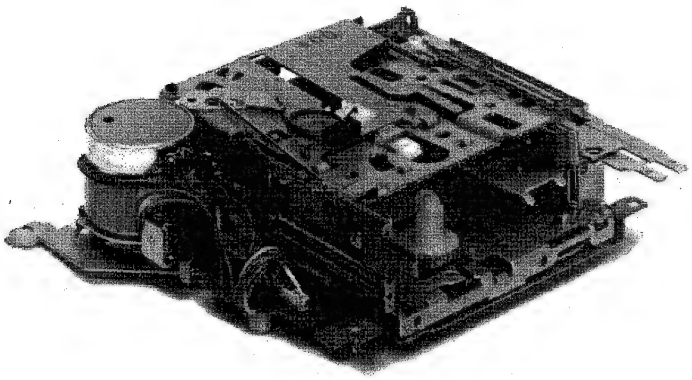
ERSATZTEILE
für Philips Car Systems
erhalten Sie bei:
KiVi Service GmbH
Windmühlenstr. 41 · 31178 Giesen/Emmerke
Tel.: 0 51 21 / 6 00 20 · Fax 0 51 21 / 60 02 54

CDS-101WPF
CDS-101XPF
CDS-101YPF

PHIL-05033

Service Manual

12 V



TECHNICAL DATA

Operating voltage	: 10-16V
Tape speed	: 4.76cm/sec ±2%
Wow & flutter	: ≤0.35% RMS (+10 - +45$C)
Crosstalk (track 2-3)	: <-40dB
Fast wind time	: ≤100secs (C-60)
Number of tracks	: 2x2
Channel separation (Tracks 1-2/3-4)	: >30dB

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GENERAL

The CDS-101 is supplied in 4 versions:

a. CDS-101SPF: Standard version.
b. CDS-101WPF: As CDS-101SPF version, with "Key-Off/A.M.S." and tape selector included.
c. CDS-101XPF: As CDS-101SPF version, with "Key-Off/A.M.S." and "Real-Time FF/REW" included.
d. CDS-101YPF: As CDS-101SPF version, with "Key-Off/A.M.S.", "Real-Time FF/REW" and tape selector included.

(A.M.S. = Automatic Music sensor System)

CONNECTIONS

CDS-101SPF/WPF/YPF
(* WPF/YPF version only; SPF version: N.C.)

Pin no.	Wire colour	Signal
1	--	--
2	--	--
3	Brown	GND
4	Red	+ 14.2 VDC
5	Orange	N.C.
6	Yellow	Play switch
7	Green	Mute switch
8	Blue	Track switch
9	Purple	Solenoid*
10	Grey	N.C.
11	White	Me/Cr sw.*

CDS101-XPF

Pin no.	Wire colour	Signal
1	Brown	GND
2	Red	+ 14.2 VDC
3	Orange	N.C.
4	Yellow	Play switch
5	Green	Mute switch
6	Blue	Track switch
7	Purple	Solenoid
8	Grey	N.C.
9	White	N.C.

HEAD CONNECTIONS

(all versions)

Pin no.	Wire colour	Signal
1	Black	GND
2	White	Left out
3	Pink	Right out

MAINTENANCE

The cassette mechanism requires periodic cleaning.

Cleaning with alcohol or spirit

- Playback head pos.109.
- Capstan & pressure rollers pos.10, 11 and 27.
- Belt (pos.105) & pulley (pos.73).

To clean head, pressure roller and capstan, it is also possible to use drop-in cassette SBC114 (4822 389 20035).

ADJUSTMENTS AND CHECKS

Equipment required:
- Universal test cassette SBC419 (4822 397 30069)
- Universal test cassette SBC420 (4822 397 30071)
- Friction test cassette 811/CTM (4822 395 30054)
- Spring scale 50-500g (4822 395 80028)
- Wow & flutter meter
- AC millivoltmeters

1. Azimuth (Fig. 1 - next page)

Azimuth alignment should be carried out on a complete car radio; proceed as follows:
- Connect the millivoltmeters to the loudspeaker outputs.
- Insert test cassette SBC419 (or SBC420), select NOR (normal play) and play the 10kHz signal.
- Adjust Azimuth screw "FWD DIRECTION" (pos. 137) for equal and maximum output voltage reading for both right and left channel.
- Switch to REV (reverse play) and play the 10kHz signal.
- Repeat the adjustment with screw "REV DIRECTION" (pos.137).

- Adjust Azimuth screw "B" (pos.143) for maximum and equal outputs both for NOR and REV play and both for right and left channel. Repeat the procedure, if necessary.

2. Pressure roller pressure

The pressure on the capstan should be 250 - 350 grammes (2.5 - 3.5N).
This pressure is measured as follows (NOR and REV):
- Select Play mode.
- Push the pressure roller back at the shown point by means of the spring scale.
- At the point where pressure roller and capstan just disengage the spring scale should be read.
- If the pressure is incorrect, replace spring 94 (95).

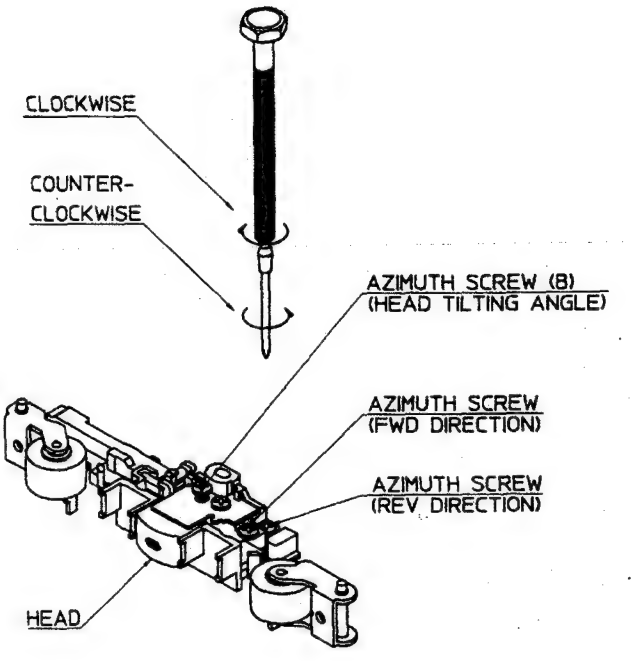
3. Friction clutch (Reel assy) 22

- Insert friction test cassette 811/CTM (NOR and REV).
- Play take-up torque should be 35 - 75g/cm.
- Fast wind torque should be 40 - 150g/cm.
- If the torque is not correct, replace reel assy 22.

4. Wow & flutter/tape speed (Fig. 2)

This check is carried out on an complete car radio; proceed as follows:
- Connect the wow & flutter meter to the LS outputs.
- Insert test cassette SBC419 (or SBC420) and play the 3150Hz signal.
- The wow & flutter value should be ≤0.35%
- Tape speed should be 4.76cm/sec. ±2%
- The tape speed can be adjusted with screw "S".

In case of an excessive wow & flutter value, check following parts for correct functioning:
- motor 31
- pressure (pinch) rollers 10, 11
- belt 105
- friction clutches (reel assy's) 22
- flywheels 27
- pulley 73



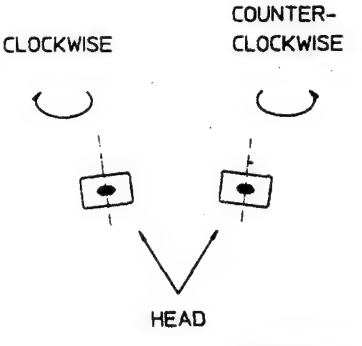


Figure 1

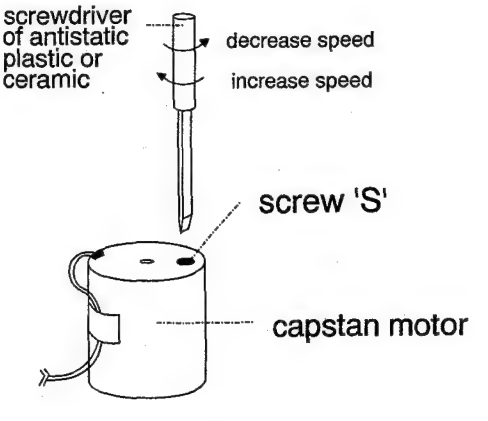


Figure 2

DISASSEMBLY INSTRUCTIONS

Refer to the exploded view to locate all positions.

Cassette Holder assy C
1. Bend the back lock of the return link 104 on eject lever 41.
2. Remove return link 104.
3. Take care that the cassette holder is in UPWARD position!
4. Remove screw 142.
5. Move the cassette holder assy to the left to unlock it from the pivots of the chassis, and lift the holder upward at the left.
6. Take the cassette holder assy out.
7. To separate the two parts of the cassette holder assy, lift the rear part up.

Reel base assy D
1. Lay the tape deck upside down on a soft surface.
2. Remove the four screws 146 which fix the bottom plate 54.
3. Remove the two screws 140 and screws 139 which fix the power switch assy A.
4. Remove the belt 105.
5. Remove the three screws 140 which fix the reel base assy.
6. Lift the reel base assy carefully.
7. To remove the reel assy 22, put a small screwdriver between the reel base and the reel assy base plate and turn the screwdriver carefully until the reel base gets loose.

Lever unit assy B
1. Remove the wire clamp 108.
2. Remove the lock arm spring 90.
3. Remove the screw 140.
4. Lift out the lever unit assy at the front.

Pressure rollers
1. First the cassette holder- and lever unit assy's should be removed.
2. Lift the pressure roller assy 10/46/47/94 (forward pressure roller) or 11/50/95 (reverse pressure roller).

Head Plate assy F and Head assy
1. First the cassette holder- and lever unit assy's should be removed.
2. Remove the two screws 136 which fix the tape guide 68.
3. Remove the adjuster arm spring 93.
4. Remove the head assy 67/93/109.
5. Remove the load lever spring 99 (not in -SPF).
6. Remove the adjuster link 66.
7. Remove the reset arm spring 86.
8. Pull the head plate 3 to the right side of the deck and lift it out carefully.

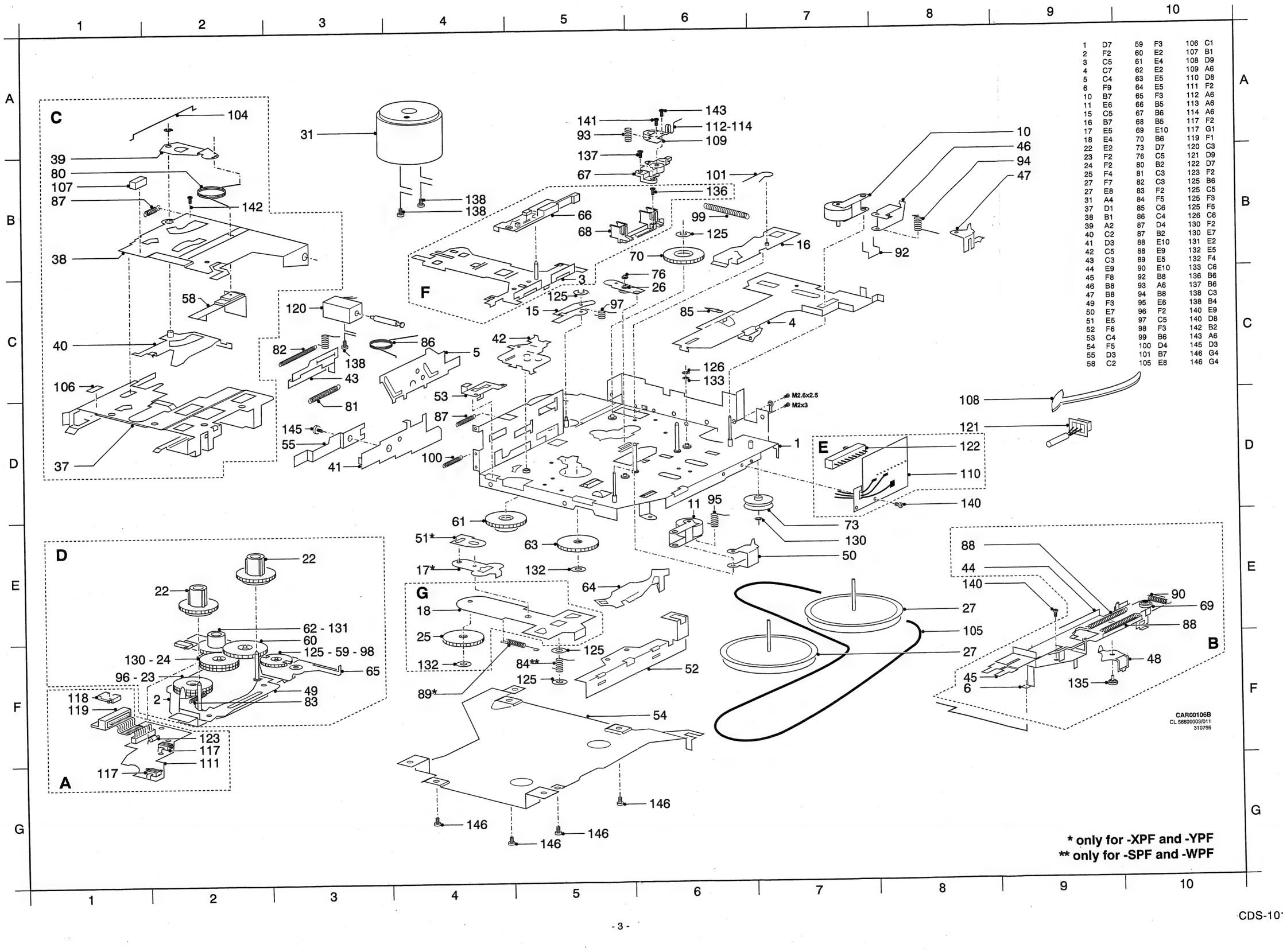
Flywheel 27
1. First the cassette holder- and lever unit assy's should be removed.
2. Remove the belt 105.
3. Remove the E-ring 126 and plate 133.
4. Remove the flywheel 27.

Note: Don't forget to re-insert the plate(s) 133 after re-assembling the flywheel(s)!

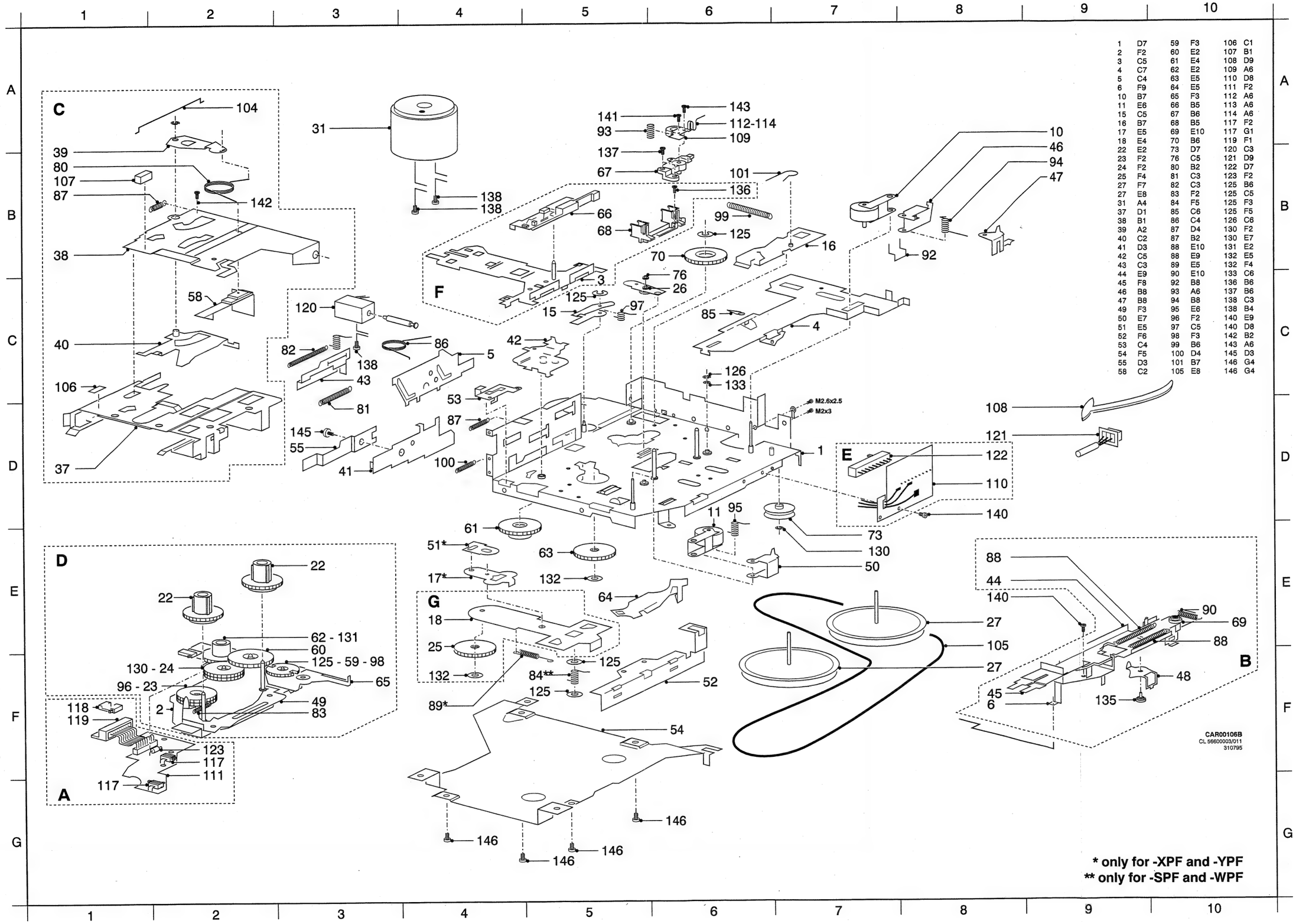
F/R arm assy G
1. First the reel base assy and both flywheels should be removed.
2. Remove E-ring 125 and the F/R arm spring 84.
3. Remove F/R change lever 52.
4. Remove the F/R arm assy G.

Motor assy 31
1. First the bottom plate 54 should be removed.
2. Remove, if present, fixing tapes etc. from the motor.
3. Unsolder the two wires from the motor terminals.
4. Remove the belt 105 from the motor pulley.
5. Remove the two screws 138 which fix the motor and take the motor out.

Solenoid 120
1. Unsolder the two solenoid wires from the switch pcb 111.
2. Remove the screw 138 which fixes the solenoid.



1	D7	59	F3	106	C1
2	F2	60	E2	107	B1
3	C5	61	E4	108	D9
4	C7	62	E2	109	A6
5	C4	63	E5	110	D8
6	F9	64	E5	111	F2
10	B7	65	F3	112	A6
11	E6	66	B5	113	A6
15	C5	67	B6	114	A6
16	B7	68	B5	117	F2
17	E5	69	E10	117	G1
18	E4	70	B6	119	F1
22	E2	73	D7	120	C3
23	F2	76	C5	121	D9
24	F2	80	B2	122	D7
25	F4	81	C3	123	F2
27	F7	82	C3	125	B6
27	E8	83	F2	125	C5
31	A4	84	F5	125	F3
37	D1	85	C6	125	F5
38	B1	86	C4	126	C6
39	A2	87	D4	130	F2
40	C2	87	B2	130	E7
41	D3	88	E10	131	E2
42	C5	88	E9	132	E5
43	C3	89	E5	132	F4
44	E9	90	E10	133	C6
45	F8	92	B8	136	B6
46	B8	93	A6	137	B6
47	B8	94	B8	138	C3
49	F3	95	E6	138	B4
50	E7	96	F2	140	E9
51	E5	97	C5	140	D8
52	F6	98	F3	142	B2
53	C4	99	B6	143	A6
54	F5	100	D4	145	D3
55	D3	101	B7	146	G4
58	C2	105	E8	146	G4



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4	C7	62	E2	109	A6
5	C4	63	E5	110	D8
6	F9	64	E5	111	F2
10	B7	65	F3	112	A6
11	E6	66	B5	113	A6
15	C5	67	B6	114	A6
16	B7	68	B5	117	F2
17	E5	69	E10	117	G1
18	E4	70	B6	119	F1
22	E2	73	D7	120	C3
23	F2	76	C5	121	D9
24	F2	80	B2	122	D7
25	F4	81	C3	123	F2
27	F7	82	C3	125	B6
27	E8	83	F2	125	C5
31	A4	84	F5	125	F3
37	D1	85	C6	125	F5
38	B1	86	C4	126	C6
39	A2	87	D4	130	F2
40	C2	87	B2	130	E7
41	D3	88	E10	131	E2
42	C5	88	E9	132	E5
43	C3	89	E5	132	F4
44	E9	90	E10	133	C6
45	F8	92	B8	136	B6
46	B8	93	A6	137	B6
47	B8	94	B8	138	C3
49	F3	95	E6	138	B4
50	E7	96	F2	140	E9
51	E5	97	C5	140	D8
52	F6	98	F3	142	B2
53	C4	99	B6	143	A6
54	F5	100	D4	145	D3
55	D3	101	B7	146	G4
58	C2	105	E8	146	G4

*** only for -XPF and -YPF**
**** only for -SPF and -WPF**

PARTSLIST

10	4822 528 81548	PINCH ROLLER FW	
11	4822 528 81549	PINCH ROLLER REV	
22	4822 528 10913	REEL ASSY	
27	4822 528 60429	FLYWHEEL ASSY	
31	4822 361 30456	MOTOR ASSY	
61	4822 522 33539	REDUCTION GEAR (A)	
63	4822 522 33541	IDLER GEAR (A)	
70	4822 522 33542	LOAD GEAR	WPF, XPF, YPF
73	4822 528 81551	IDLER PULLEY (A)	
86	4822 492 42753	RESET ARM SPRING	SPF
86	4822 492 42756	RESET ARM SPRING (K)	WPF, XPF, YPF
89	4822 492 33485	POS. SETTER SPRING	XPF, YPF
93	4822 492 33486	ADJUSTER ARM SPRING	
94	4822 492 42754	PINCH ROLLER SPG FW	
95	4822 492 42755	PINCH ROLLER SPG REW	
99	4822 492 33487	LOAD LEVER SPRING '	WPF, XPF, YPF
100	4822 492 33488	TAPE SELECTOR SPRING	WPF, YPF
101	4822 492 42757	LOAD LEVER SPRING (B)	WPF, XPF, YPF
105	4822 358 31326	BELT	
109	4822 249 30219	HEAD	
120	4822 281 50188	SOLENOID	WPF, XPF, YPF
123	4822 130 83863	DIODE	WPF, XPF, YPF
125	4822 530 80699	E-RING 1.5MM	
126	4822 530 80701	E-RING 1.6MM	
132	4822 530 70629	PLATE 2.1X4MM	
133	4822 530 70628	PLATE 2.1X3.2MM	
137	4822 502 21608	AZIMUTH SCREW	
143	4822 502 21607	AZIMUTH SCREW (B)	

COMPLETE DECKS

4822 691 10436	CDS-101SPF COMPLETE	
4822 691 10437	CDS-101WPF COMPLETE	
4822 691 10435	CDS-101XPF COMPLETE	
4822 691 10434	CDS-101YPF COMPLETE	

ASSEMBLIES

A	4822 276 13605	POWER SWITCH ASSY	SPF
A	4822 276 13604	POWER SWITCH ASSY	WPF, YPF
A	4822 276 13606	POWER SWITCH ASSY	XPF
B	4822 404 21342	LEVER BRACKET ASSY	
C	4822 256 92307	CASSETTE HOLDER ASSY	
D	4822 528 10915	REEL BASE ASSY	SPF
D	4822 528 10916	REEL BASE ASSY	WPF, XPF, YPF
E	4822 214 52263	SWITCH PCB ASSY	
F	4822 466 83197	HEAD PLATE ASSY	
G	4822 404 21343	F/R ARM ASSY	SPF, WPF
G	4822 404 21344	F/R ARM ASSY	XPF, YPF

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Service
Service
Service

Supplement

Service Manual

12 V ⊖|▸

GENERAL

This supplement manual should be used together with the CDS-101 service manual 4822 725 24651.
Refer for:
- technical specifications
- maintenance
- checks & adjustments and
- disassembly procedure

to that manual.

The CDS-101XPS2 has the following differences with respect to the CDS-101XPS:
- additional wire cover on the lever bracket assy (pos.B); see exploded view
- a different signal connector pos. 119; see also exploded view
- diode pos. 123 is left out.

This supplement contains:
- connector layout
- an adapted exploded view and
- parts list.

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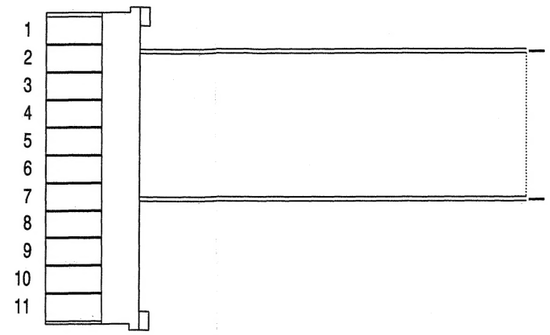
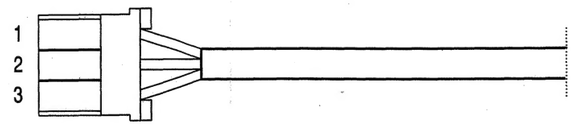
CONNECTIONS

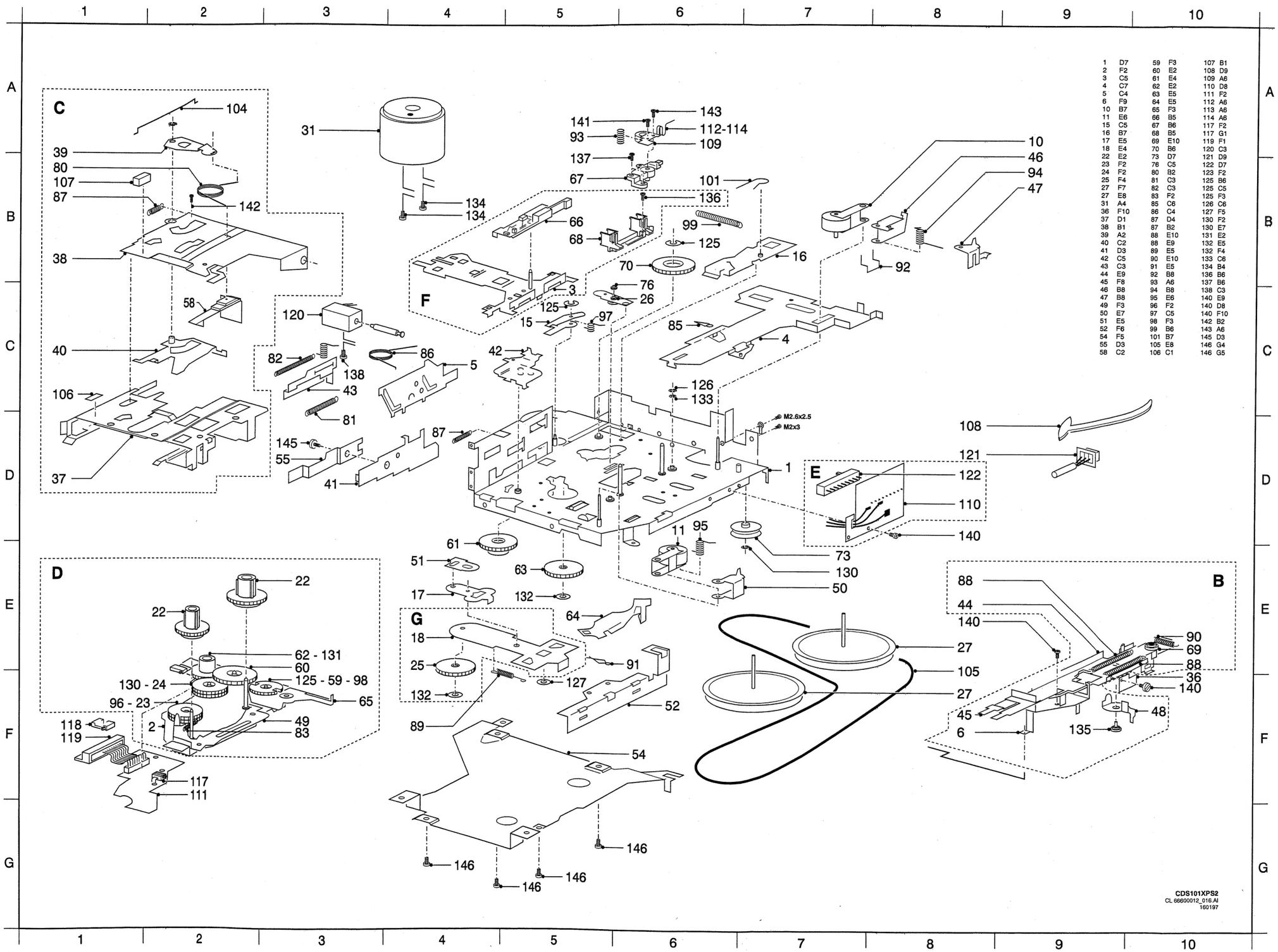


Pin no.	Wire colour	Signal
1	---	N.C.
2	Brown	Track switch
3	Red	GND
4	Orange	Play switch
5	Yellow	Play switch COM
6	Green	Motor +
7	Blue	Mute switch
8	Purple	Solenoid
9	Grey	Solenoid
10	---	N.C.
11	---	N.C.



Pin no.	Wire colour	Signal
1	Black	Common GND
2	White	Left
3	Pink	Right

EXPLODED VIEW CDS-101XPS2



1	D7	59	F3	107	B1
2	F2	60	E2	108	D9
3	C5	61	E4	109	A6
4	C7	62	E2	110	D8
5	C4	63	E5	111	F2
6	F9	64	E5	112	A6
10	B7	65	F3	113	A6
11	E6	66	B5	114	A6
15	C5	67	B6	117	F2
16	B7	68	B5	117	G1
17	E5	69	E10	119	F1
18	E4	70	B6	120	C3
22	E2	73	D7	121	D9
23	F2	76	C5	122	D7
24	F2	80	B2	123	F2
25	F4	81	C3	125	B6
27	F7	82	C3	125	C5
27	E8	83	F2	125	F3
31	A4	85	C6	126	C6
36	F10	86	C4	127	F5
37	D1	87	D4	130	F2
38	B1	87	B2	130	E7
39	A2	88	E10	131	E2
40	C2	88	E9	132	E5
41	D3	89	E5	132	F4
42	C5	90	E10	133	C6
43	C3	91	E5	134	B4
44	E9	92	B8	136	B6
45	F8	93	A6	137	B6
46	B8	94	B8	138	C3
47	B8	95	E6	140	E9
49	F3	96	F2	140	D8
50	E7	97	C5	140	F10
51	E5	98	F3	142	B2
52	F6	99	B6	143	A6
54	F5	101	B7	145	D3
55	D3	105	E8	146	G4
58	C2	106	C1	146	G5

PARTS LIST

Note: ONLY

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ASSEMBLIE

B
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D
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F

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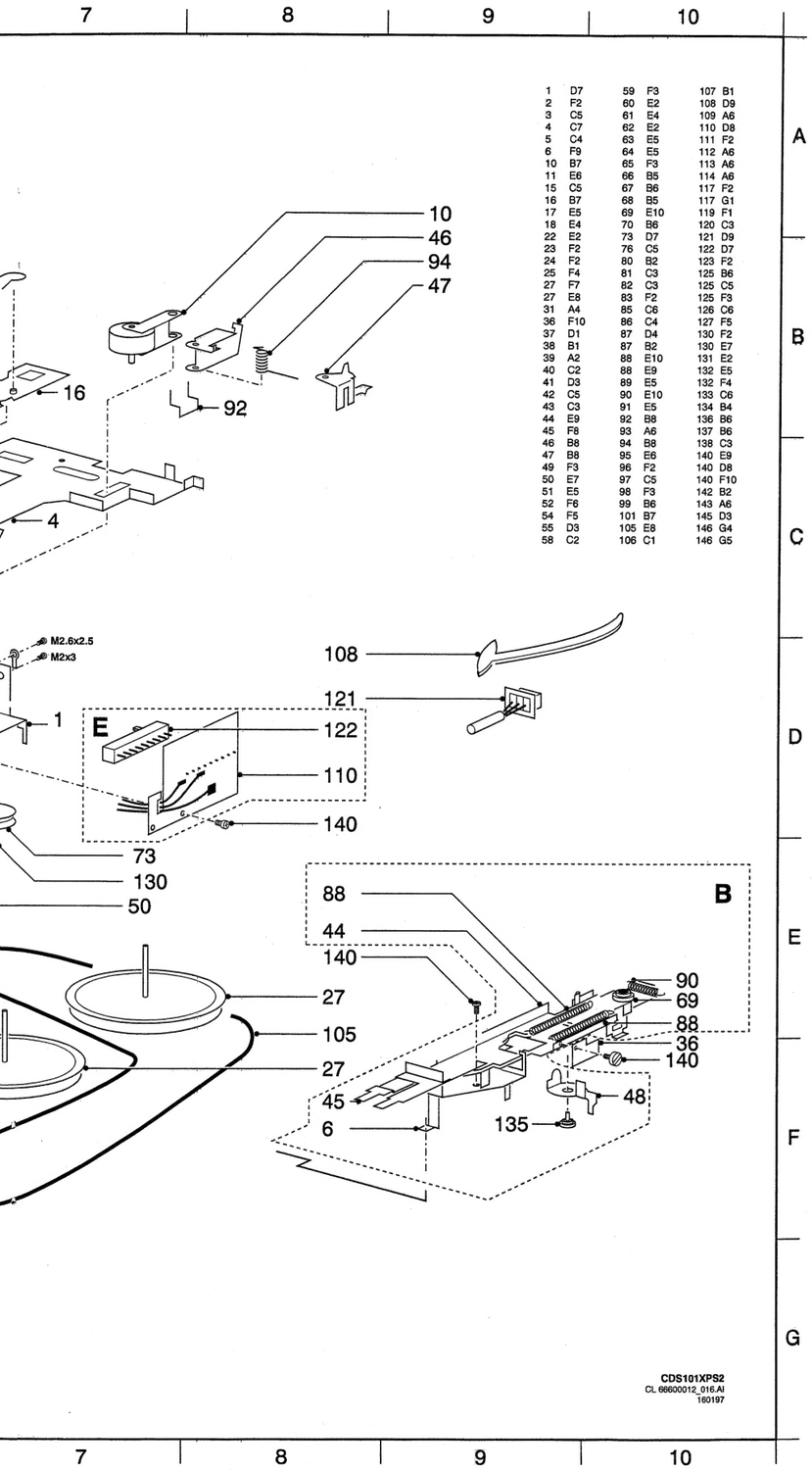

PARTS LIST

Note: ONLY those position numbers mentioned here are service parts.

10	4822 528 81548	PINCH ROLLER FW
11	4822 528 81549	PINCH ROLLER REW
22	4822 528 10913	REEL ASSY
27	4822 528 60429	FLYWHEEL ASSY
31	4822 361 30456	MOTOR ASSY
61	4822 522 33539	REDUCTION GEAR (A)
63	4822 522 33541	IDLER GEAR (A)
70	4822 522 33542	LOAD GEAR
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86	4822 492 42756	RESET ARM SPRING (K)
89	4822 492 33485	POS. SETTER SPRING
93	4822 492 33486	ADJUSTER ARM SPRING
94	4822 492 42754	PINCH ROLLER SPG FW
95	4822 492 42755	PINCH ROLLER SPG REW
99	4822 492 33487	LOAD LEVER SPRING
101	4822 492 42757	LOAD LEVER SPRING (B)
105	4822 358 31326	BELT
109	4822 249 30219	HEAD
117	4822 276 13838	PUSH SWITCH
118	4822 276 13839	POWER SWITCH
119	4822 320 11821	11P-8P WIRE ASSY
120	4822 281 50188	SOLENOID
125	4822 530 80699	E-RING 1.5MM
126	4822 530 80701	E-RING 1.6MM
127	4822 532 12749	RET. RING 1.6X3.5
132	4822 530 70629	PLATE 2.1X4MM
133	4822 530 70628	PLATE 2.1X3.2MM
137	4822 502 21608	AZIMUTH SCREW
143	4822 502 21607	AZIMUTH SCREW (B)
	4822 691 10455	CDS-101XPS2 COMPLETE

ASSEMBLIES

B	4822 404 21342	LEVER BRACKET ASSY
C	4822 256 92307	CASSETTE HOLDER ASSY
D	4822 528 10916	REEL BASE ASSY
E	4822 214 52263	SWITCH PCB ASSY
F	4822 466 83197	HEAD PLATE ASSY
G	4822 404 21344	F/R ARM ASSY